About This Guide

Thank you for choosing this Gigabit Color IP Phone which is especially designed for power users in the office environment. It features fashionable and sleek design, abundant telephony applications, broad interoperability with the popular 3rd party VoIP products, fulfilling the VoIP deployment needs from enterprise and ITSP.

In this User Guide, you will find everything you need to quickly use your new phone. Be sure to verify with your system administrator that your network is prepared for configuring your IP phone. As well, be sure to read the Packing List section in this guide before you set up and use the phone.

Declaration of Conformity

Hereby, it's declared that this phone is in conformity with the essential requirements and other relevant provisions of the CE, FCC.

CE Mark Warning

This is a class B device, in a domestic environment; this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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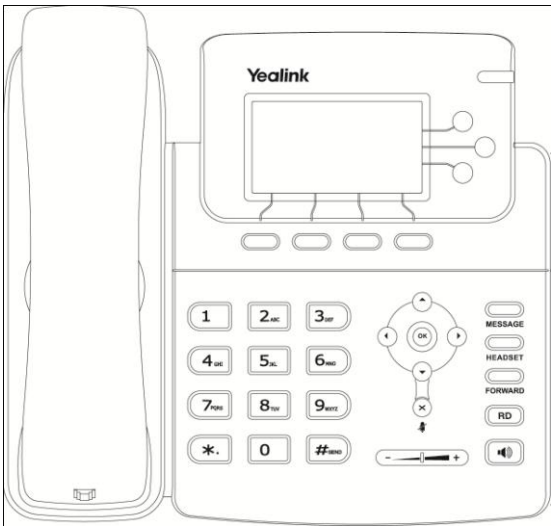
Getting Started

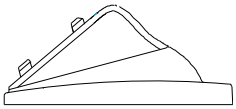
Packing List

The following components are included in your package:

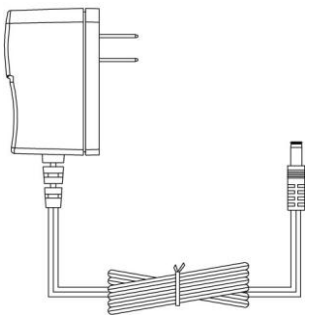
- Gigabit Color IP Phone



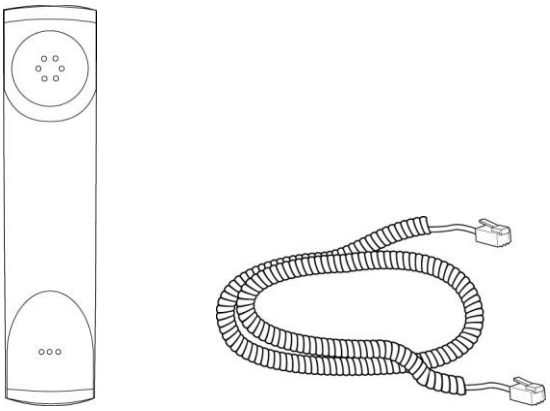
- Phone Stand



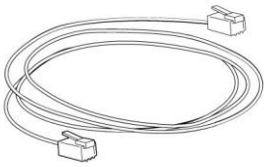
- Power Adapter



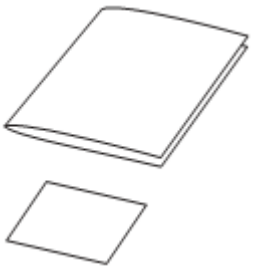
- Handset & Handset Cord



- Ethernet Cable



- Quick Installation & Quick Reference Guide



- CD Content

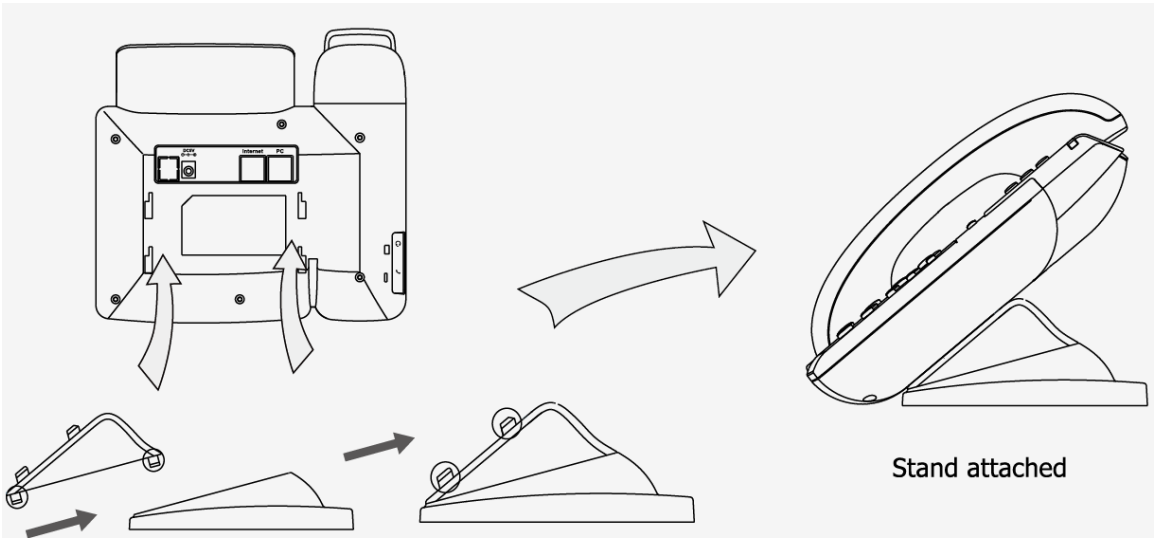
Check this list before installation to ensure that you have received each item. If you are missing any items, contact your IP phone reseller.

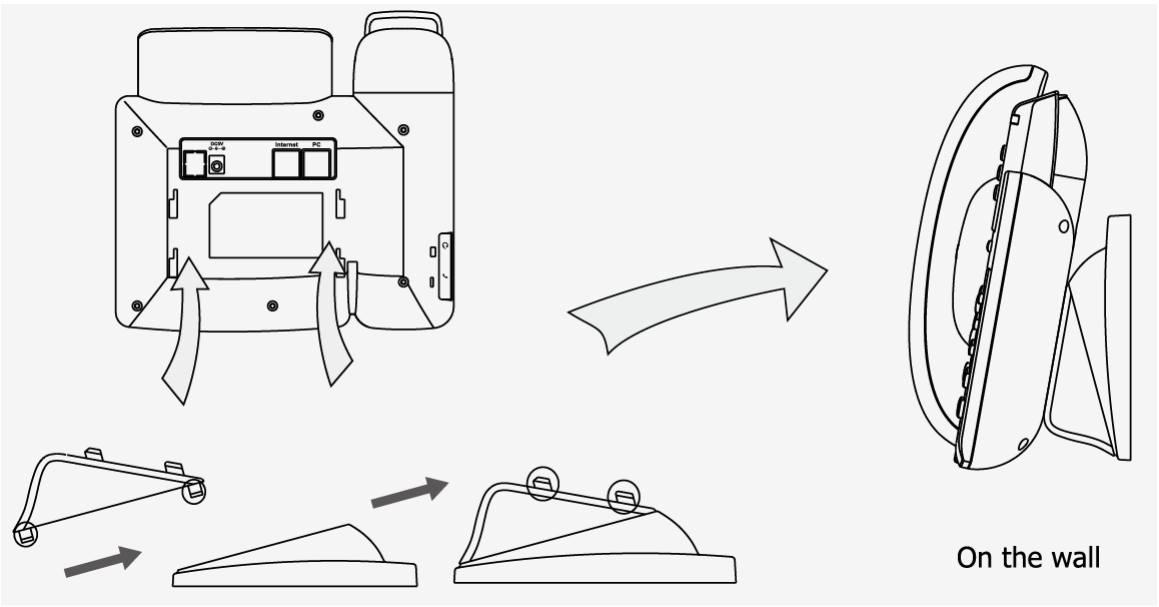
Assembling the Phone

This section introduce how to assemble the phone with the components in the packing list:

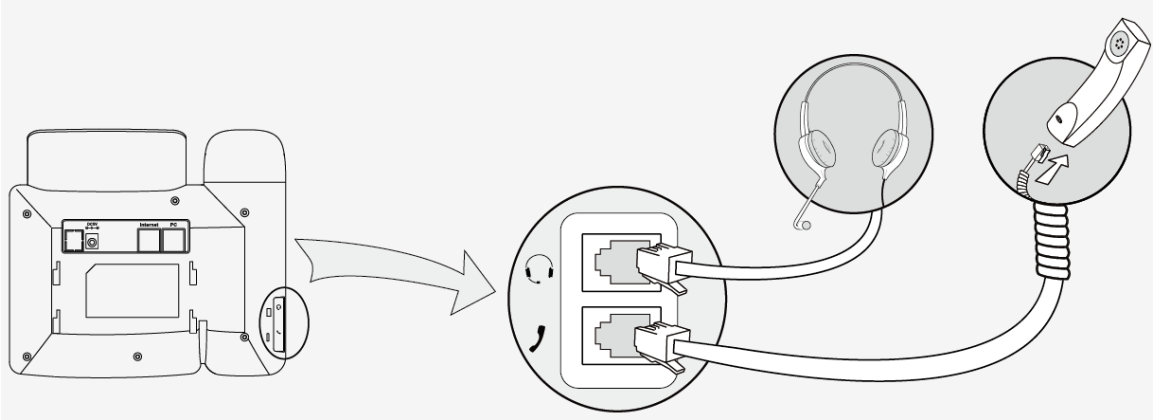
- Attach the stand;
- Connect Handset and Headset;
- Connect Network and Power.

1) Attach the Stand, as shown below:





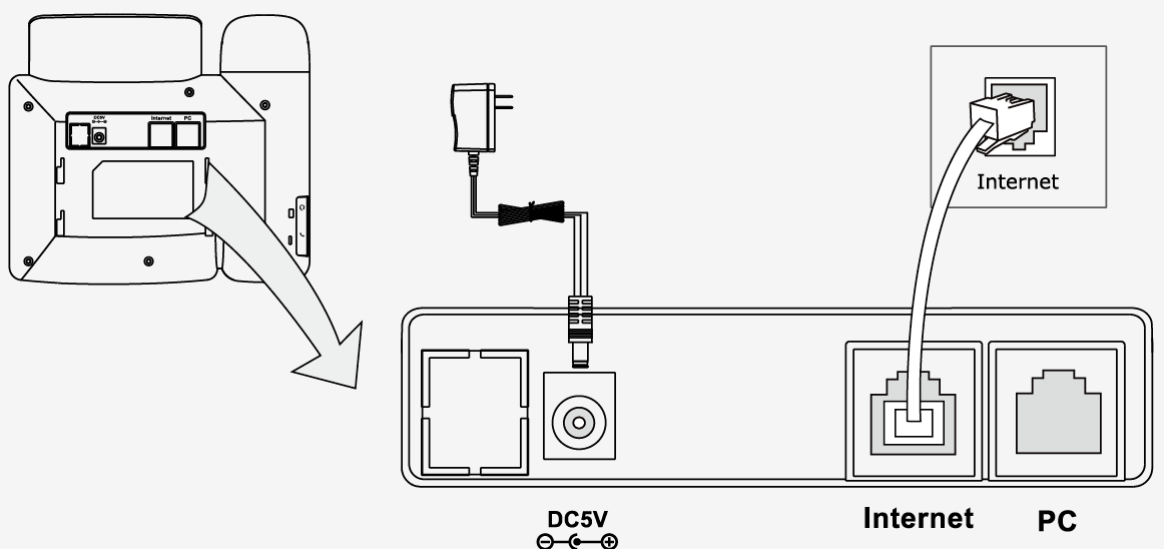
2) Connect Handset and Headset, as shown below:



Note:
Headset is not provided in the packing list. Please contact your distributor for more information.

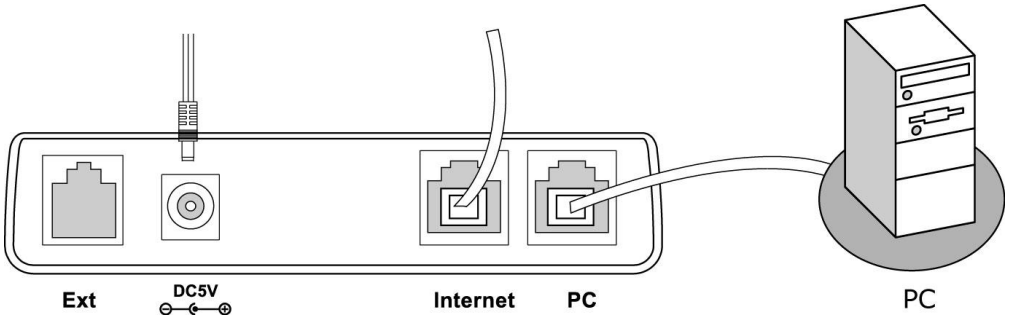
3) Connect Network and Power

There are two ways for power source connections. You can either connect the phone to the AC Power directly using the power adapter or to a PoE compliant switch or hub. Your system administrator will advise you on which one to use.



Note:
1. If inline power is provided, do not install AC adapter. Make sure the Ethernet cable and switch/hub is POE compliant.
2. The Internet Port can be also connected to Hub/Switch/IP PBX or other internet devices.

The phone can also share the network connection with other network devices such as PC. Connect the phone's PC port and computer's Network Port together using an Ethernet cable, shown as below:



Configuration and Registration

If you are administrator, you need to do some simple configuration to make the phone work. If not, please contact your administrator for more details.

Configuring via Web Page

Press OK button on the keypad of the phone to enter the status page and find out the IP address of IP phone. Enter it (for example http://192.168.3.35) into the address bar of web browser. The default administrator's login name and password are **admin/admin**. The default user's login name and password are **user/user**.

Note:
Please locate your PC in the same network segment as your IP phone (192.168.3.X) to access the web configuration page. Please consult your system administrator for help.

Network Settings

Choose Network->Basic->WAN

DHCP: Under the default situation the phone attempts to contact a DHCP Server in your network in order to obtain its valid network settings, e.g. IP address, subnet mask, gateway, DNS server, etc.

Static IP Address: If your phone cannot contact a DHCP Server for any reason, you need to enter the network settings manually via Static IP Address. Please contact your internet administrator for more details.

PPPoE: If you are using the xDSL Modem, you can connect your phone to the internet via PPPoE mode. Please contact your ISP for the User **Name** and **Password** for internet access.

Note:
Using the wrong network parameters may result in inaccessibility of your phone and may also have an impact on your network performance. Please contact your network administrator.

Account Settings

The phone attempts to register to the SIP server using the account data provided by the

automatic or manual initialization.

Choose Account->Basic->Account X, you will find the following parameters:

Field	Description
Register Status	It shows the register status of the phone.
Account Active	You can choose enable/disable the account respectively.
Label	The name showing on the LCD of current device.
Display Name	The local phone name showing on the other phone when calling.
Register Name	SIP service subscriber's ID used for authentication.
User Name	User account, provided by VoIP service provider.
Password	Account password provided by ISP.
SIP Server	SIP server address provided by ISP.

When you have finished the Network and Account Setting configuration, the Register Status Icons will show in the idle screen:

Registered successfully

Register failed

Registering

When there is not any account registered successfully, the phone will display "No Service" by default on the idle interface.

When the phone boots up, it will register all its accounts to server automatically. If many phones register at the same time, this will affect the server, the users can set the registered random time on electricity so that the phone wills random register automatically within the set time.

Setting the power up time via web interface:

Choose Network->Advanced->Registration random, enter the time in the field.

Note:
Should the IP PBX (SIP registrar) require an authentication, you will be prompted to enter the correct password. Make sure you are using the appropriate input method or enter the password via the web user interface.

Configuring via keypad

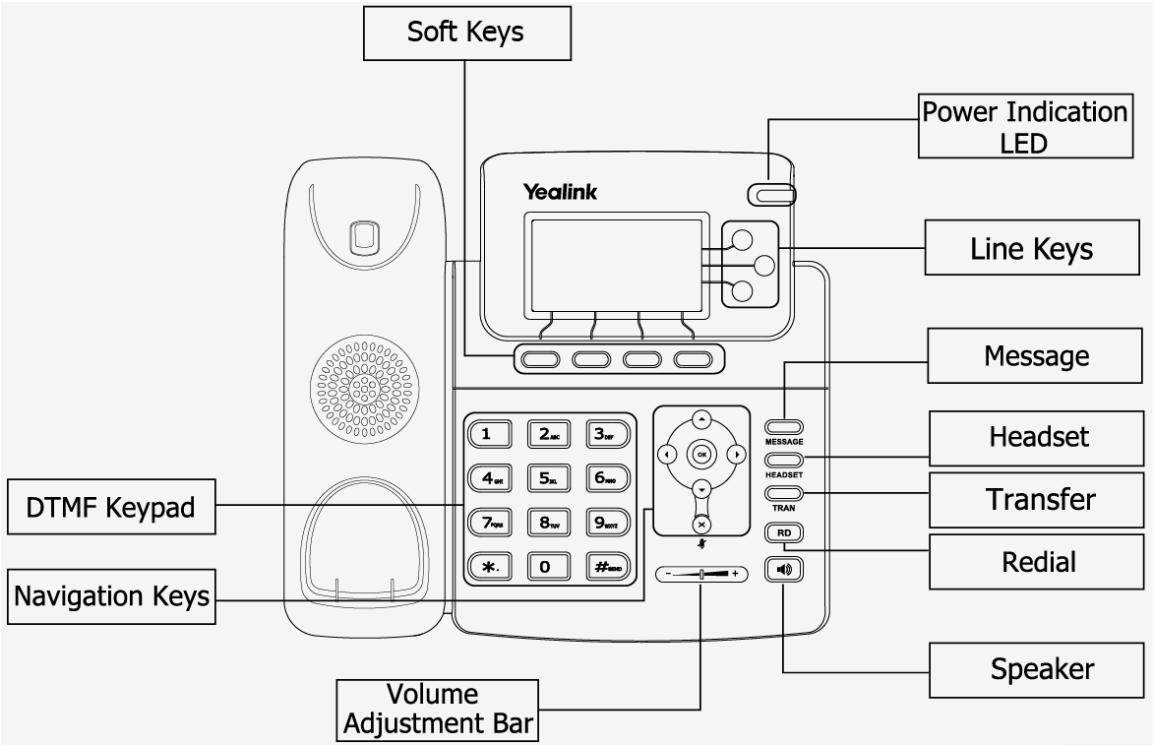
Network Settings: Press Menu->Setting->Advanced Settings, enter the password, and choose Network ->WAN Port /PC Port /VLAN/Webserver Type/802.1x Settings/VPN Option to enter the network relating configuration page.

Account Settings: Press Menu->Settings->Advanced Settings, enter the password, and choose Accounts to configure the account settings.

You can refer to the above “Configuring via Web Page” for the parameter details.

Overview

Keypad Instruction



You can check the following list which introduces the IP phone's keypad in details:

Power Indication LED

It will show the power status, it will be on if the phone is powered, off if the phone is not powered，and blink when there is an incoming call or there is a call on mute.

Soft Keys

The screen will display labels for these keys, to identify their context-sensitive functions, and you can custom soft keys. To be different layout, you can refer to "Softkey layout" function for details.

Line Keys

These buttons are used to active up to the three user accounts.

These keys are also used for various functionalities such as call /Line appearance Button.

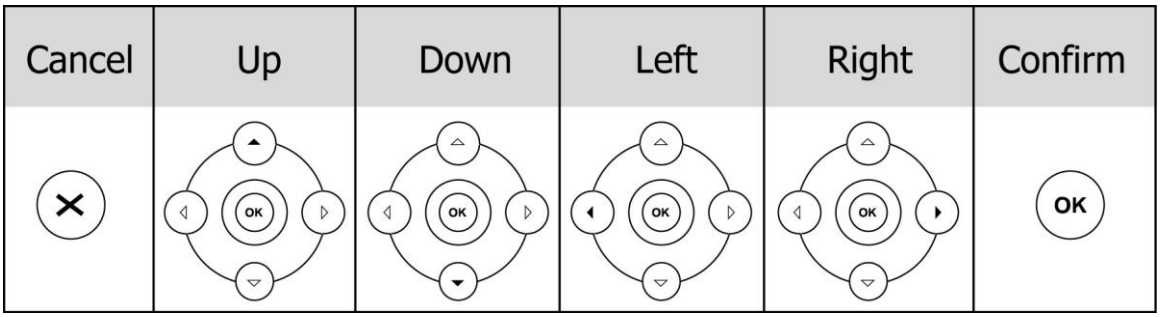
DTMF Keypad

Use the DTMF hard keys to enter numbers, letters and special characters. Depending on

the selected input mode, you can enter digits, lower / upper case or special characters.

Navigation Keys

Use the navigation key to navigate in the display menus and confirm or cancel actions.



Audio Device Control Keys

Use the audio device control keys to perform the following actions depends on your phone type:

: Adjust the volume of the handset, headset, speaker, ring tone and signal tone;

: Allows for hands-free communication during calls;

Press to switch to the Group Listening mode;

: Place and receive calls through an optional connected headset.

Hard Feature Keys

: Allow users to access the voicemail interface directly;

: During a call, press to transfer the current call to the third party;

When the phone is in idle status, press to enter the forward configuration page;

: Press to enter the Dialed Calls interface and choose a record to dial out;

LED Instruction

Table 1 Line Keys set to BLF

LED Status	Description
Steady green	The monitored account is in idle status
Fast blinking green	There is an incoming call to the monitored account
Slow blinking green	The monitored account is on an conversation
Off	It is not active as BLF

Table 2 Line Keys set to BLA

LED Status	Description
Steady green	All of the members are in idle status
Slow blinking green	Some part(s) is seizing the line/ ring-back/ under the private hold status.
Fast blinking green	Some part(s) is ringing/on the phone / under the public hold status or all of the parts press hold.
Off	It is not active as BLA

Table 3 Line Keys

LED Status	Description
Steady green	The account is active
Blinking green	There is an incoming call to the account, or there is a call on hold.
Off	The phone is in idle status whatever registered /unregistered

Table 4 Power Indication LED

LED Status	Description
Steady green	Power on
Blinking green	There is an incoming call, or there is a call on mute
Off	Power off

Icon Instruction

The IP Phone displays different kinds of icons on its LCD, you can refer to the following table for their meanings:

Icon	Description
	Flashes when the internet is disconnected
	Account register failed
	Account registering
	Account register successful
	Missed calls in idle status
	In history page: Call in
	In history page: Call out
	In history page: Missed call
2aB	Input Method: all letters and numbers
123	Input Method: numbers
abc	Input Method: multi-lingual letters in lower case
ABC	Input Method: multi-lingual letters in upper case
	Call mute

	Call hold
	Voicemail
	SMS
	Call forward
	DND(Do Not Disturb)
	Auto answer
	In handset mode
	In headset mode
	In speaker mode
	Ring volume is 0
	The recording session cannot be started
	The recording cannot be stopped
	Probably the recording box is full
	This call cannot be recorded
	Enable the record function
	Open VPN
	Enable keypad lock
	Conference
	The default contact photo

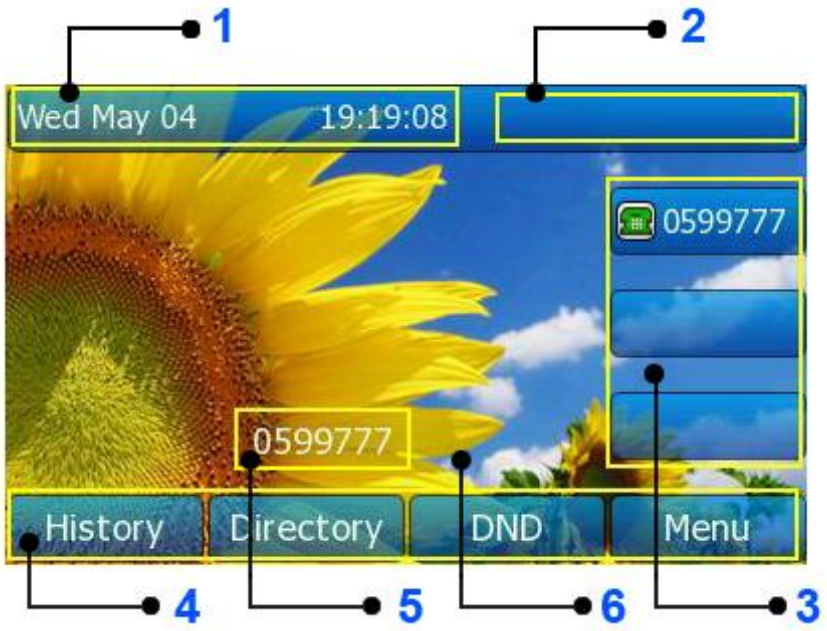
User can set the line key as other function, for more information you can refer to "DSS Keys". Set the line key as corresponding function the corresponding icon will display on the line key label.

Line key ICON	**Description**
	The default icon when you set the line key as other functions (except Line, BLF, Speed Dial, Record and XML Group).
	Set as BLF function, and the monitored account is Unregistered.
	Set as BLF function, the monitored account is in the idle.
	Set as BLF function, there is an incoming call to the monitored account.
	Set as BLF function, the monitored account is on a conversation.
	Set as Speed dial function.

	Set as XML Group function.

Customizing Your Phone

Idle interface



NO.	Description
1	This area is showing the phone's time.
2	This area is showing the phone feature status. For more information you can refer to "Icon Instruction".
3	This area is showing the three line key labels. You also can custom the line key as other functions. For more information you can refer to "DSS Keys".
4	This area is showing the soft key labels. The screen will display labels for these keys, the default soft key 1-4 are "History", "Directory", "DND" and "Menu". User also can custom these soft key. For more information you can refer to "Softkey Layout".
5	This area is showing the default account. User can use Left/Right navigation key to choose the default account.
6	This area is showing the background's picture. User also can change it. For more information you can refer to "WallPaper".

Menu introduction

Enter into the main menu interface, there are some sub-menu, user can choose

corresponding submenu to enter into the configuration interface.

Menu	Submenu	Second level submenu
Status	IP	----
	MAC	
	Firmware	
	More…	• Network • Phone • Accounts
Features	Call Forward	• Always Forward • Busy Forward • No Answer Forward
	Call Waiting	----
	DSS Keys	• DSS Key 1 • DSS Key 2 • DSS Key 3
	Key as Send	----
	Hot Line	
	Anonymous Call	
	Auto Redial	
	DND Code	
	Intercom	
	Call Completion	
	Broadsoft Settings Menu	• Broadsoft Dir Settings • CallLog Settings
	History Setting	----
Directory	Local Directory	• Contacts Group
	Blacklist	----
	Remote Phonebook	• Contacts Group
	Broadsoft	• Contacts Group
History	Local History	----

	Network CallLog	• CallLog Group
Messages	Voice Mail	• View Voice Mail • Set Voice Mail
	Text Message	• New Message • Inbox • Sentbox • Outbox • Drafbox
Setting	Basic Settings	• Language • Time & Date • Time & Date Format • DHCP Time • Ring Tone
	Advanced Settings	• Accounts • Network • Phone Setting • Reset to factory • Set Password • Set AES Key • Auto Provision
Display	WallPaper	----
	Screensaver	
	Theme	
	Backlight	
App	Digital Phone Frame	

Note:
"----" is representative there is no second level submenu.

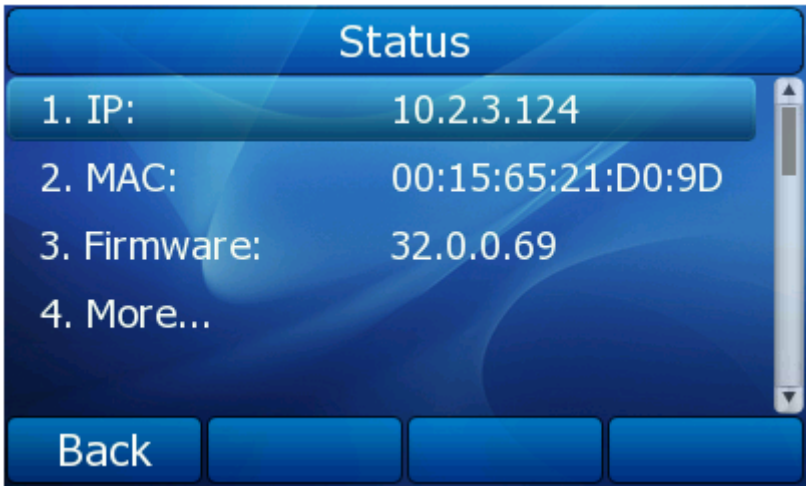
Status

You can view the status of your phone using the Phone interface or the Web interface. This option allows you to review:

- Network status: IP, Mac, WAN/LAN, Gateway and DNS etc.
- Phone status: Model, Hardware, Firmware, Product ID and MAC;
- Accounts: The 3 SIP accounts status;

To check the Phone Status via Phone interface:

1) Press Menu soft key, choose the Status option, or press OK button on the idle interface.
2) User can check the IP address, MAC and Firmware directly.
3) If you want to check more information, you can use the Up/Down navigation key to choose "More" option, press enter soft key.



4) And then choose the specific one to check.

Features

Call Forward

This feature allows you to forward an incoming call to another phone number e.g. a cell phone or voice mailbox.

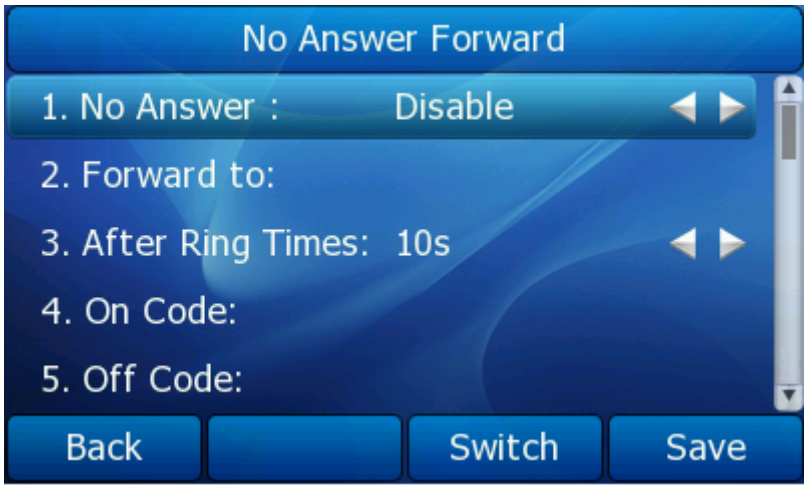
The following call forwarding events can be configured:

- *Always:* Incoming calls are immediately forwarded.
- *Busy:* Incoming calls are immediately forwarded when the phone is busy.
- *No Answer:* Incoming calls are forwarded when the phone is not answered after a specific period.

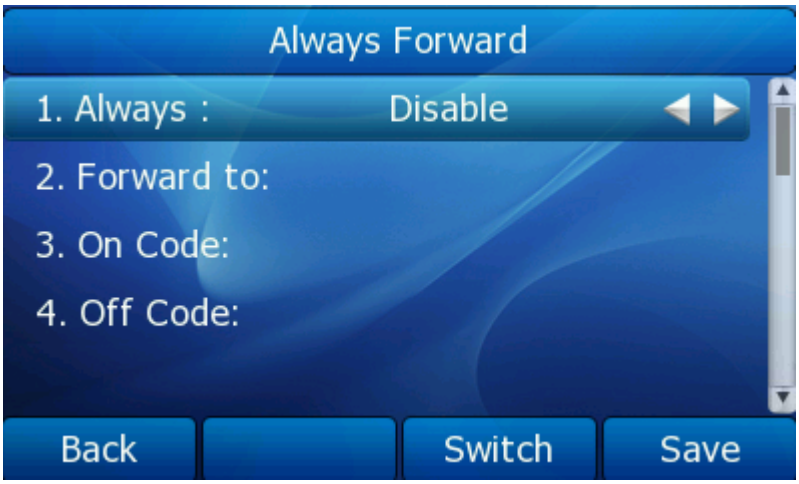
To configure Call Forward option via phone interface:

1) Press Menu->Features ->Call Forward to enter the configure page.
2) There are 3 options: Always Forward, Busy Forward and No Answer Forward.

3) If you choose one of them, enter the phone number you want to forward.
4) If you choose No Answer Forward, you must also choose "After Ring Times".



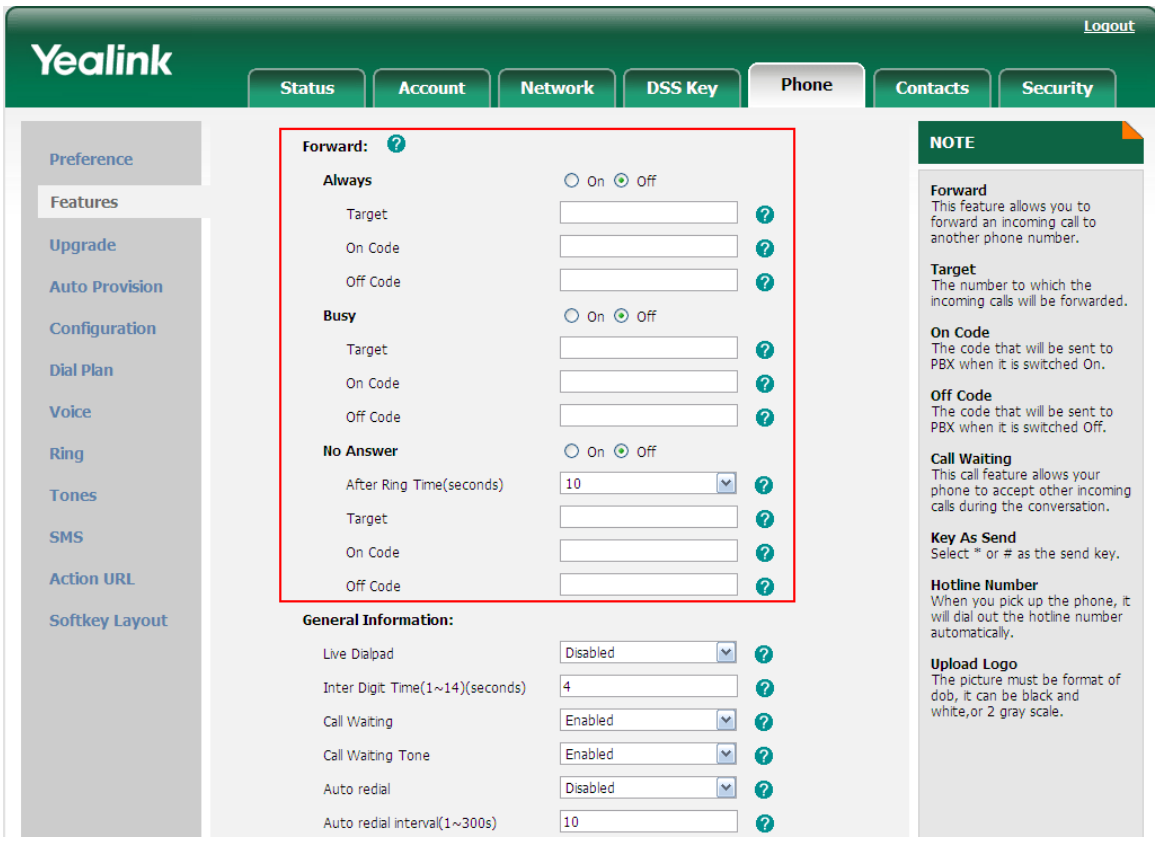
5) If you want to realize this function by server, please enter the On Code and Off Code option, then when you choose to enable the call forward function via your IP phone, it will send message to the server, and the server will turn on the function immediately. When there is a call to the extension, the server will forward it to the set number automatically based on the forward type. And the IP phone will not show the record in the call history anymore.



6) Press Save soft key to save the change.

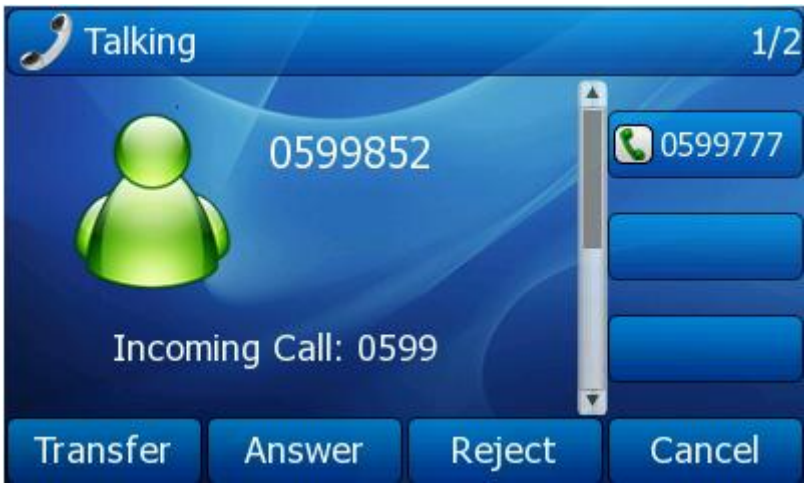
To configure Call Forward via Web interface:

Choose Phone->Features->Forward to do the relating change. Please refer to the above configuration information.



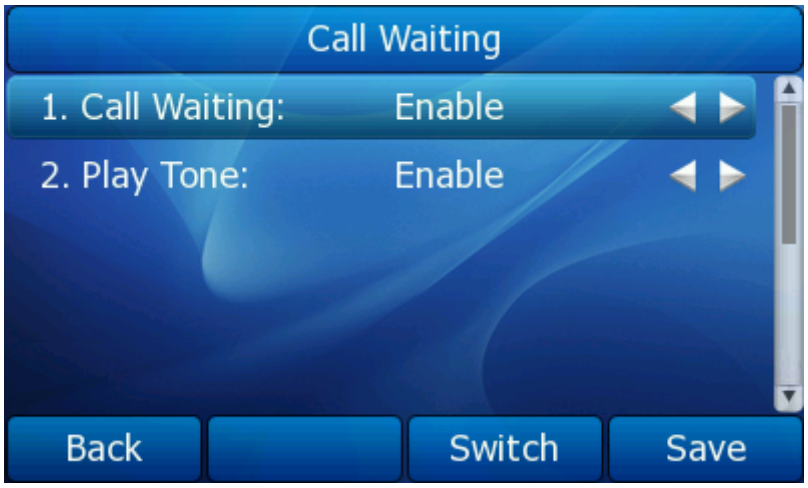
Call Waiting

This call feature allows your phone to accept any incoming calls to the extension under all circumstances.



To enable/disable Call Waiting via Phone interface:

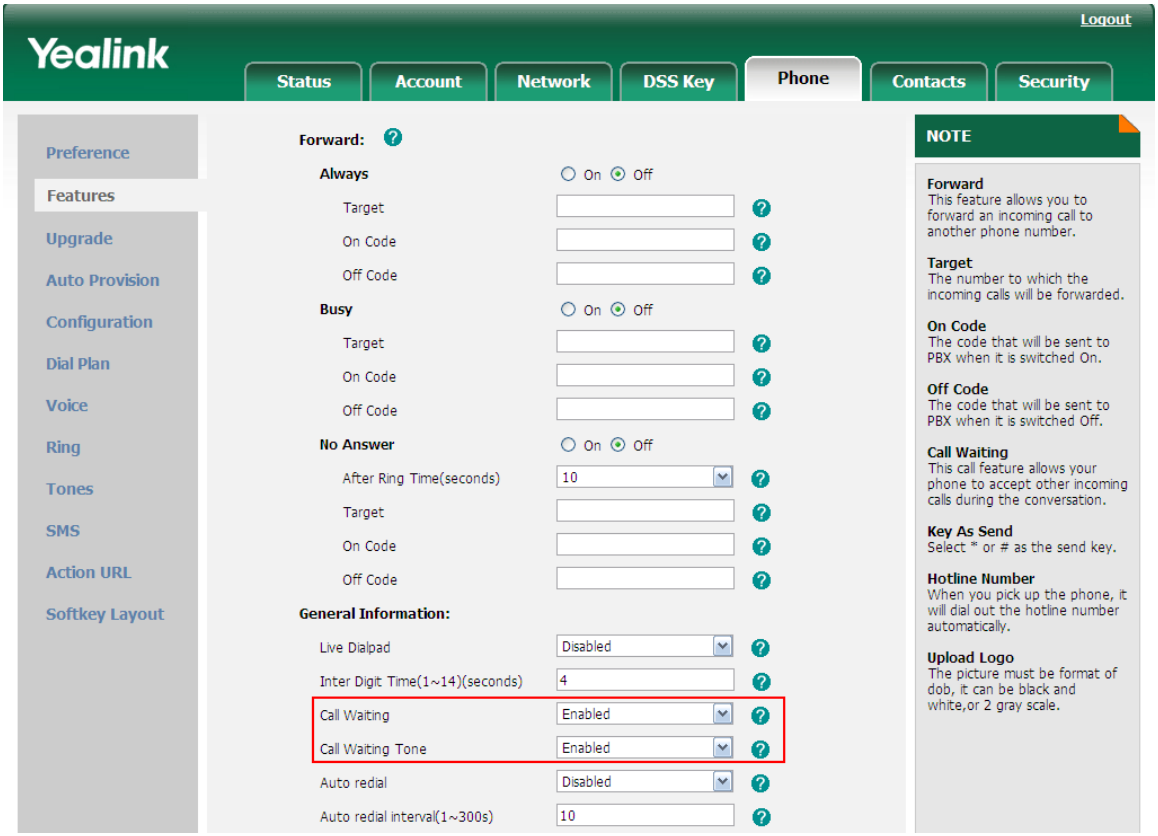
1) Press Menu->Features->Call Waiting.
2) Use the navigation key or Switch soft key to enable/disable the call waiting option.



3) Use the navigation key or Switch soft key to enable/disable the Play Tone option. This option used to define whether to play ring tones when there is an call incoming during an active call.
4) Press Save soft key to save the change, or Back soft key to return to the previous menu.

To enable/disable Call Waiting via Web interface:

Choose Phone->Features->Call Waiting option to do the relating change.

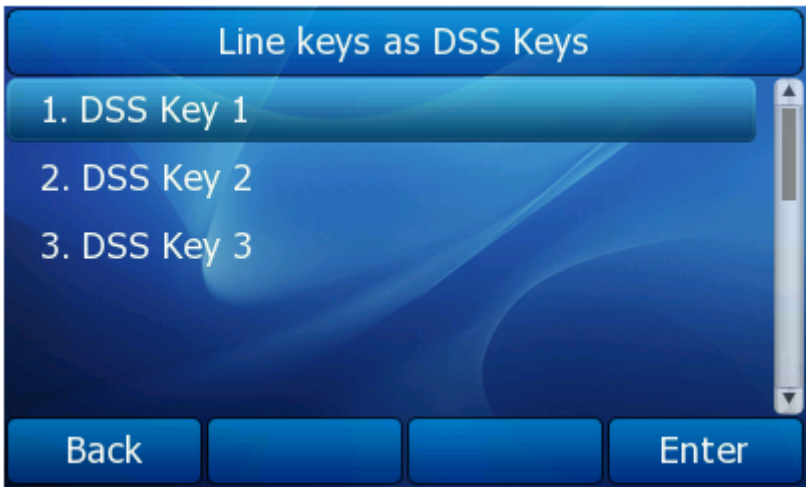


DSS Keys

The phone has 3 line keys which are able to set up to 30 functions per key.

Set up DSS key via phone interface:

1) Press Menu->Features-> DSS keys enter into the configure page.
2) Choose one of the key you want to make the assignment.
3) Choose the type, and then configure the corresponding contents.



Set up DSS key via web interface:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment

2) Choose the type, and then configure the corresponding contents.

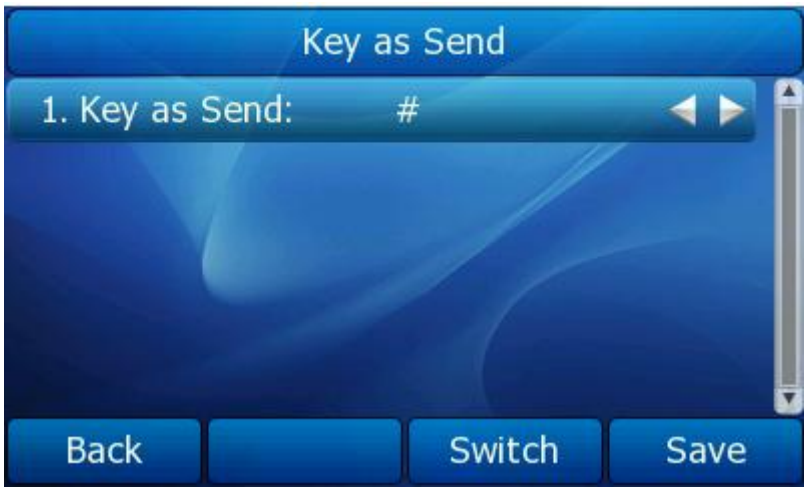
For more information about any function and operation procedure you can refer to "DSS key Configuration".

Key as Send

Users can set a specific button ("#" or "*") to active as the send button.

To set the send key via the IP phone interface:

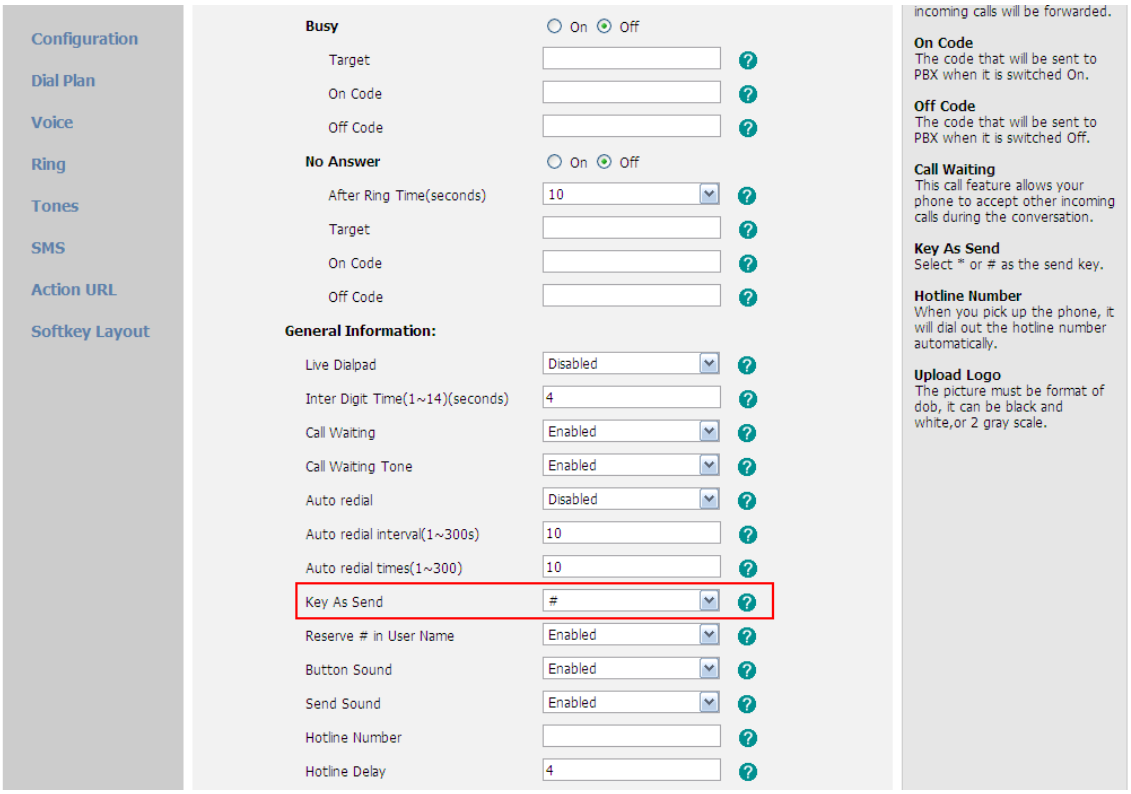
1) Press Menu->Features->Key as Send to enter the configuration page.



2) Press the Switch soft key to choose a button that you want to use as the send key: "#", "*", or disable this option.
3) Press the Save soft key to save the change.

To set the send key via the Web interface:

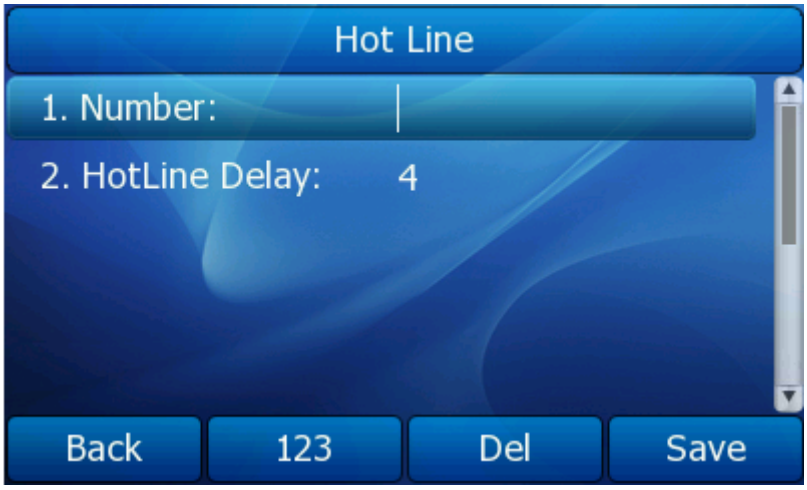
1) Choose Phone->Features->Key As Send.
2) Highlight the specific one in the pull-down menu, then click confirm button to save the change.



Hot Line

To set the hot line number via the IP phone interface:

1) Press Menu->Features->Hot Line to enter the configuration page.

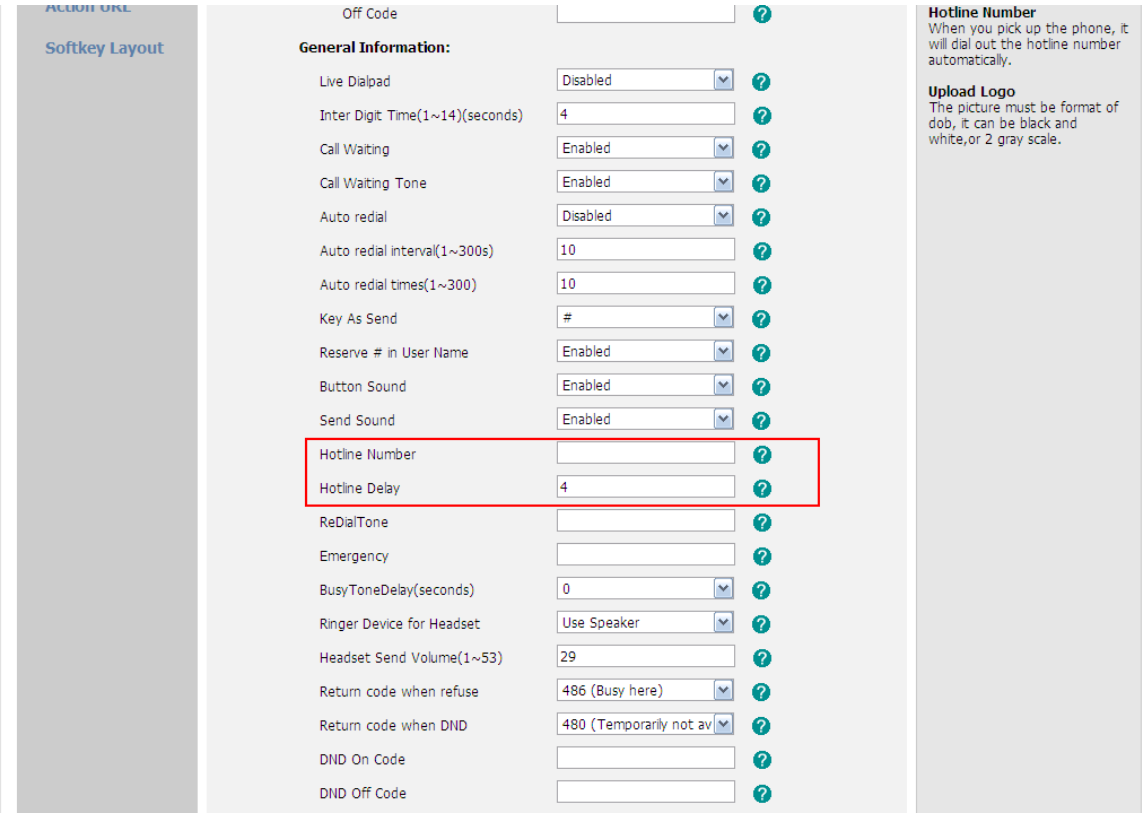


2) Enter the hot line number and hot line delay time (for example, 10 seconds), then press the Save soft key to save the change.
3) When you pick up the handset or press the speaker button, it will dial the number automatically if you do not press any keys for 10 seconds.

To set the Hot Line via the Web interface:

1) Choose Phone->Features.

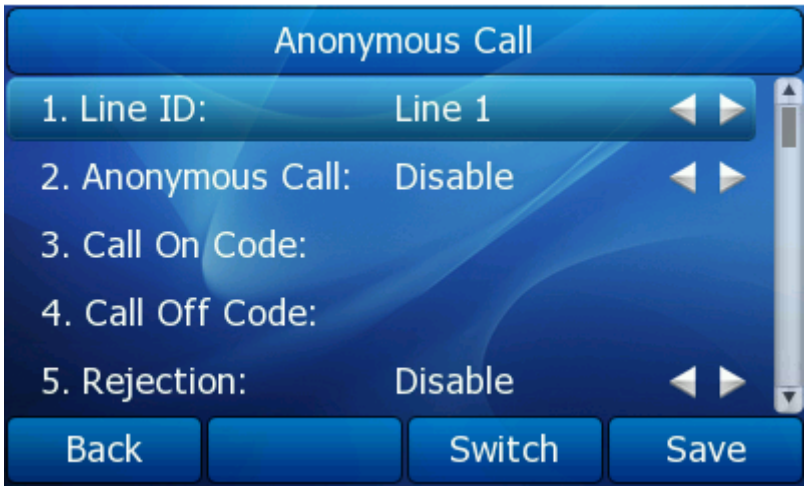
2) Input the Hotline Number and Hotline Delay, and then click the Confirm button to save the change.


Softkey Layout
Off Code
General Information:
Live Dialpad Disabled
Inter Digit Time(1~14)(seconds) 4
Call Waiting Enabled
Call Waiting Tone Enabled
Auto redial Disabled
Auto redial interval(1~300s) 10
Auto redial times(1~300) 10
Key As Send #
Reserve # in User Name Enabled
Button Sound Enabled
Send Sound Enabled
Hotline Number
Hotline Delay 4
ReDialTone
Emergency
BusyToneDelay(seconds) 0
Ringer Device for Headset Use Speaker
Headset Send Volume(1~53) 29
Return code when refuse 486 (Busy here)
Return code when DND 480 (Temporarily not av
DND On Code
DND Off Code
Hotline Number
When you pick up the phone, it will dial out the hotline number automatically.
Upload Logo
The picture must be format of dob, it can be black and white,or 2 gray scale.

Anonymous Call

To set the anonymous call via the IP phone interface:

1) Press Menu ->Features->Anonymous Call to enter the configuration page.



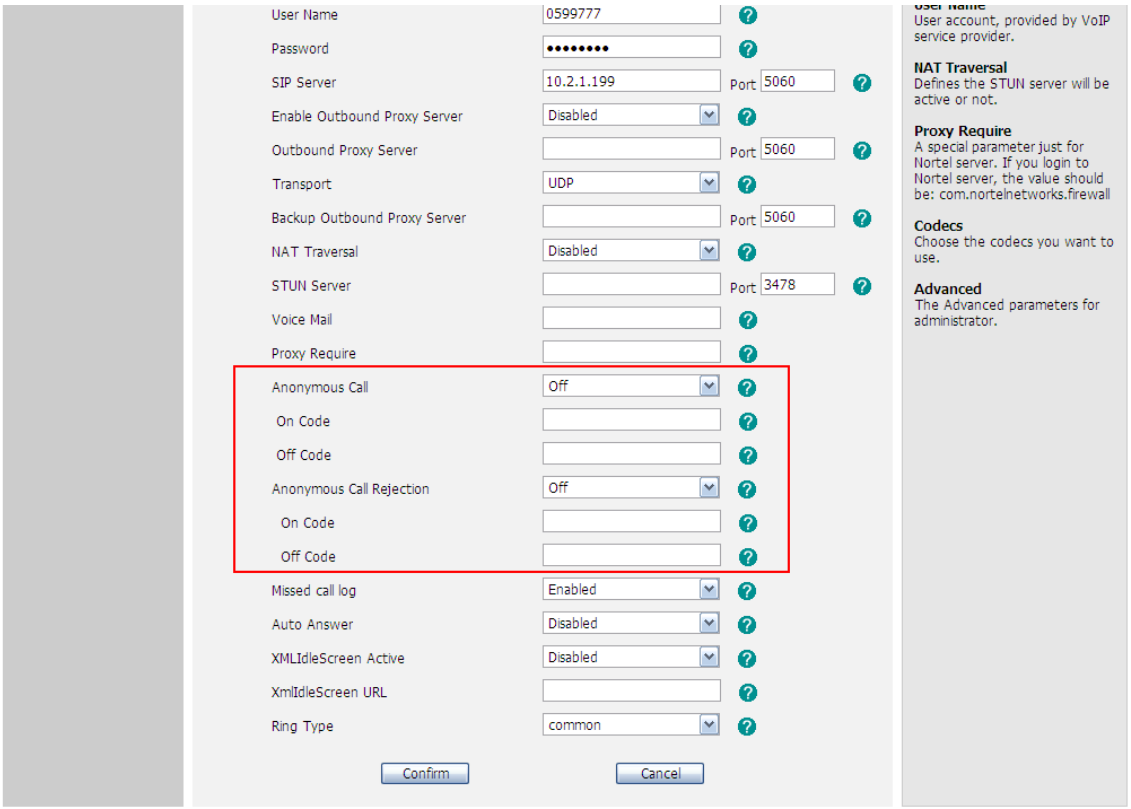
2) By the Switch soft key, you can choose the Line ID.

3) Press the navigation key to enter and choose whether to enable the anonymous call function. This feature allows the subscriber to make a call with the blocked display of their calling identification information.

4) If you want to realize this function by server, please choose and enter the Call On Code and Call Off Code. When you choose to enable the anonymous call function on your IP phone, it will send information to the server, and the server will enable/ disable the anonymous call function for your IP phone automatically.
5) Press the navigation key to enter and choose whether to enable the anonymous rejection function. The feature allows the subscriber to reject all calls from callers who have been blocked with the display of their calling identification information (calling number and calling name).
6) If you want to realize this function by server, please choose and enter the Reject On Code and Reject Off Code. When you choose to enable the Rejection option on your IP phone, it will send information to the server, and the server will enable/ disable the rejection anonymous call function for your IP phone automatically.
7) Press the Save soft key to save the change.

To set the anonymous call via the Web interface:

1) Choose Account-> Basic-> Anonymous Call to do the relating changes. Please refer to the instruction above for the detailed parameters.
2) Then click the Confirm button to save the change.

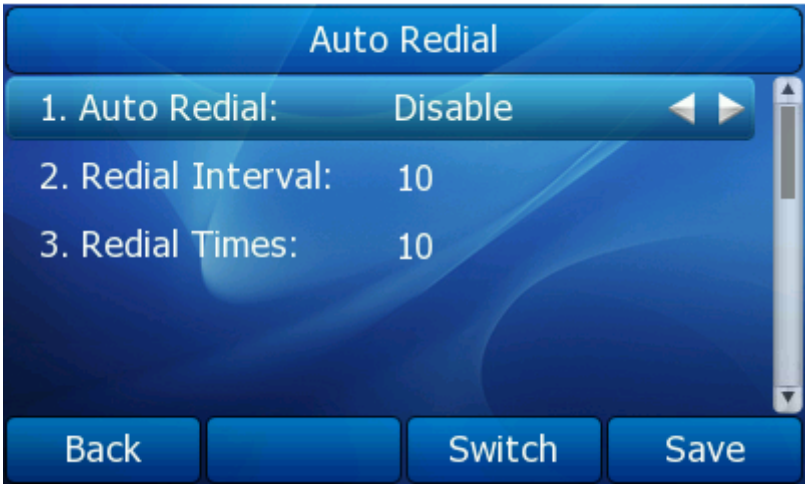


Auto Redial

Auto redial is a telephone feature that redials a busy number repetitively with preset times before giving up.

To set auto redial via phone interface:

1) Press Menu->Features->Auto Redial to enter the configuration page.

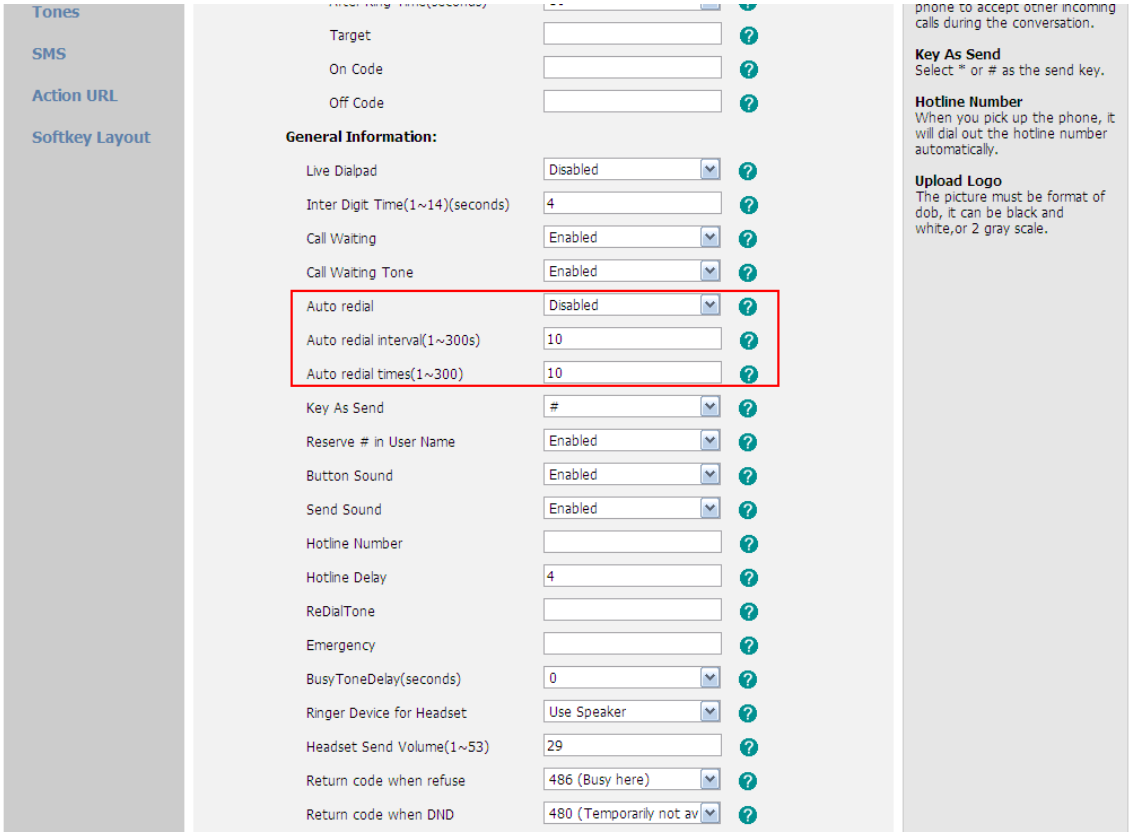


2) By the Switch soft key, you can choose whether to enable the auto redial function.
3) Press the navigation key to choose and set the redial interval. It is measured by second.
4) Press the navigation key to choose and set the redial times.
5) Press Save soft key to save the change.

Note:
When you dial a busy number after setting the auto redial function to Enable, the phone will pop up a Auto Redial window to make sure whether you want to redial. If you want, press OK. If you do nothing in this interface for 5 seconds, it will turn to the idle interface automatically.

To set auto redial via the Web interface:

1) Choose Phone-> Features-> Auto Redial.
2) Choose Enabled or Disabled in the pull-down menu.
3) Enter the redial interval and redial times in the corresponding fields.
4) Click Confirm button to save the change.



DND Code

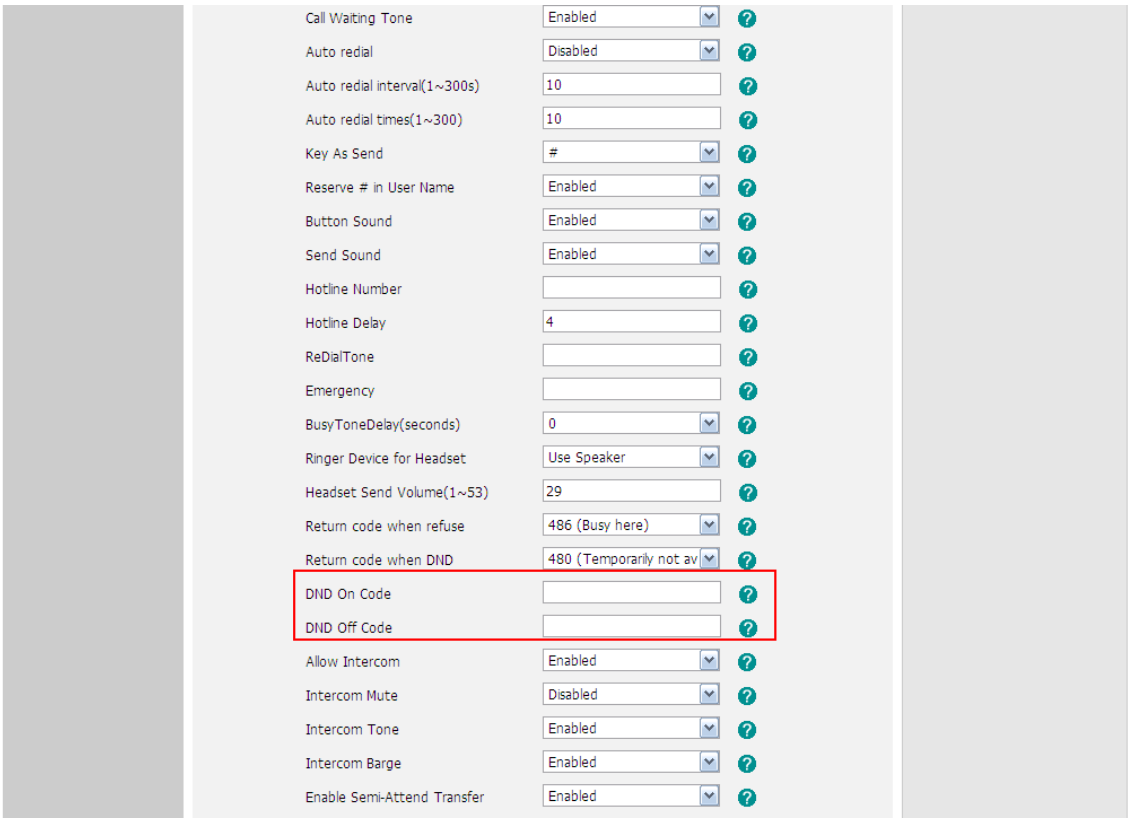
You can set DND function by the DND Code via phone interface:

1) Go to Menu->Features->DND Code to enter the configuration page.

2) Set the DND On Code and the DND Off Code, then press the Save soft key to save the change.
3) When you press the DND soft key, the phone will send a message to the server, and the server will turn on the DND function. Then any calls to the extension will be rejected by the server automatically. And the incoming call record will not be displayed in the Call History.

Set DND function by the DND Code via web interface:

1) Choose Phone-> Features ->DND On Code/ DND Off Code.
2) Enter the corresponding contents.
3) Click the Confirm to save the change.

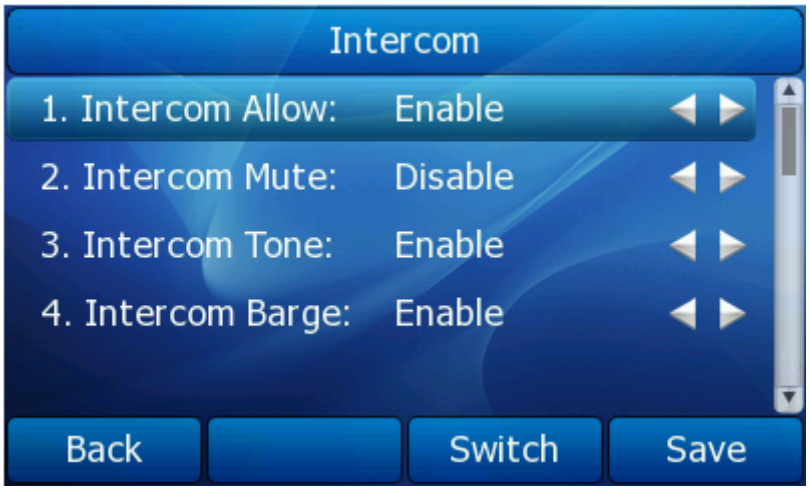


Intercom

Intercom mode is useful in an office environment as a quick access to connect to the operator or the secretary.

To configure Intercom option via phone interface:

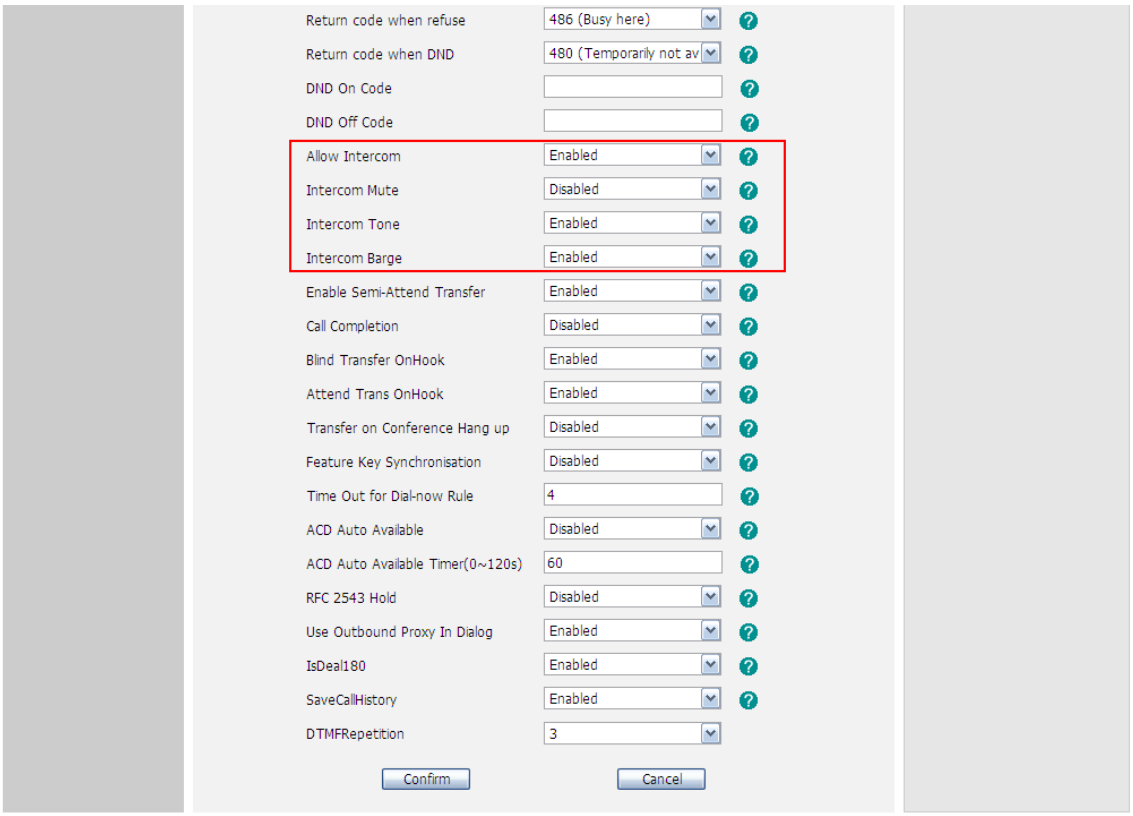
1) Press Menu->Features->Intercom to enter the configuration page.



2) Intercom Allow: To set whether to answer the incoming intercom calls.
3) Intercom Mute: To set whether to mute the incoming intercom calls automatically.
4) Intercom Tone: To set whether to play ring tones when there is incoming intercom calls to your extension.
5) Intercom Barge: To set whether to answer the incoming intercom calls during a conversation. If the option is enabled, when there is incoming intercom calls to your extension, if you are on an intercom conversation, it will refuse the call automatically; or it will put the current call on hold and put the incoming intercom call through.
6) Choose and set the different options by navigation key and the Switch soft key.
7) Press the Save soft key to save the change.

To configure Intercom option via web interface:

1) Choose Phone->Features
2) Configure Allow Intercom, Intercom Mute, Intercom Tone or Intercom Barge. For more information you can refer to the content above.
3) Click the Confirm button to save the change.



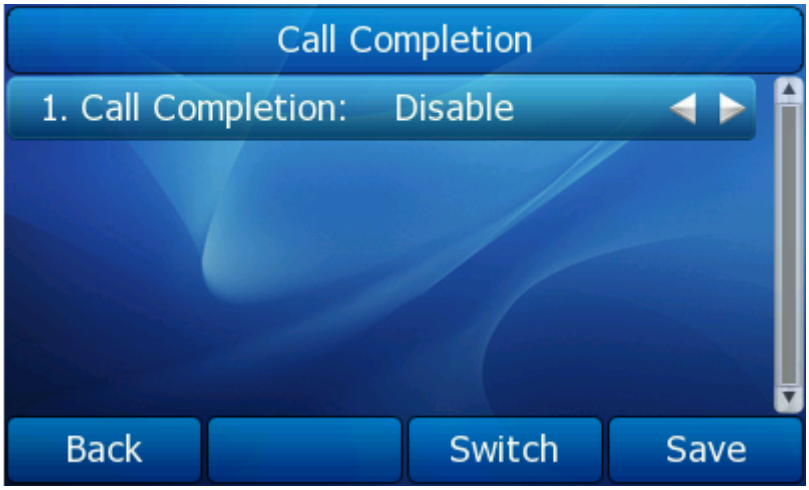
Call Completion

Have encountered such a situation? When you call a contact, but the other side is busy on a call. Do you want the server to inform you immediately when the contact ends the

call, in order to establish a conversation with each other in time? Call Completion can help you to solve this problem.

To configure Call Completion via phone interface:

1) Press Menu->Features->Call Completion to enter the configuration page.



2) By the Switch soft key, choose whether to enable this option.
3) Press the Save soft key to save the change.

Broadsoft Settings menu

Broadsoft Dir Settings

Broadsoft phone book is the same as the Remote Phone Book. This feature allows you to download contact list from the server.

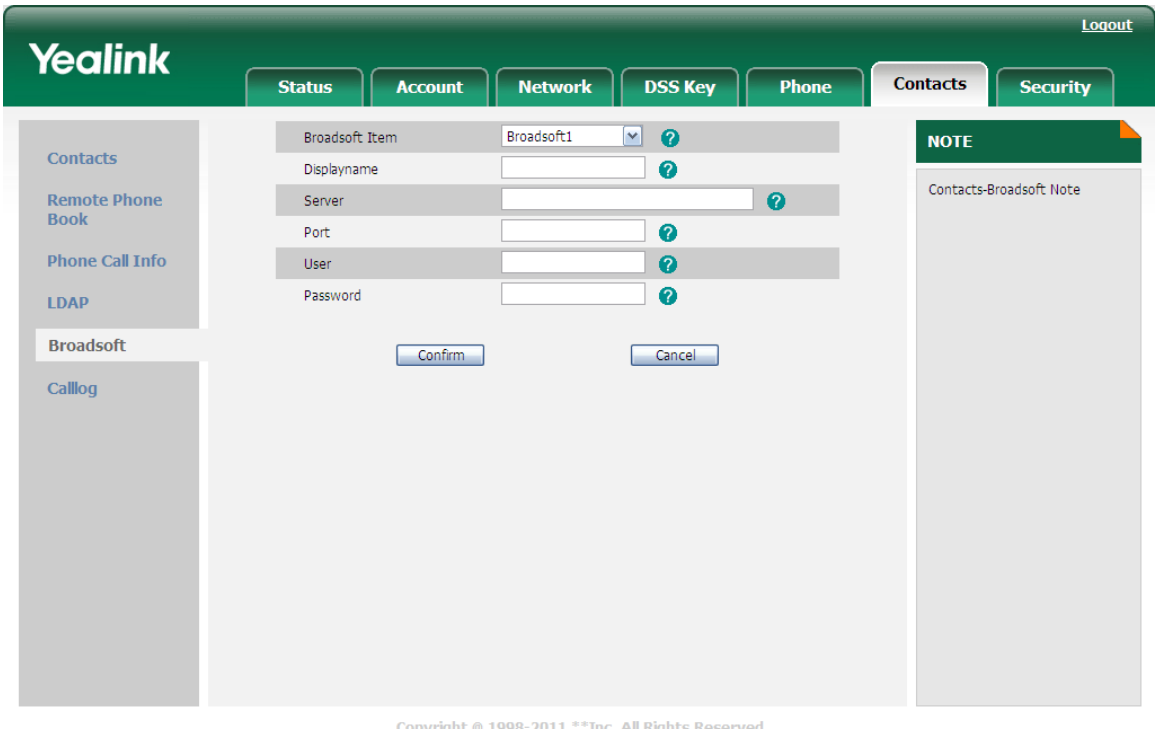
For more information about "Remote Phone Book", refer to "Remote Phone Book"

Configure Broadsoft directory via phone interface:

1) Press Menu->Features->Broadsoft Settings Menu->Broadsoft Dir Settings
2) Choose Broadsoft Item, enter the Display Name, Server, Port, User Name and Password.
3) Press the Save soft key to save the change.

Configure Broadsoft directory via web interface:

1) Choose Contacts->Broadsoft.
2) Choose the Broadsoft Item, and then input the Display Name, Server, Port, User Name and Password.
3) Click the Confirm button to save the change.



To check the Broadsoft phone book via Phone interface:

1) Press Menu->Directory->Broadsoft to enter the Broadsoft Group page.
2) Choose a special one, and press the Enter soft key, it will go to the corresponding URL address to download the contact information for you.

Note:
1. This IP phone can support 6 Broadsoft phone books at most.

CallLog Settings

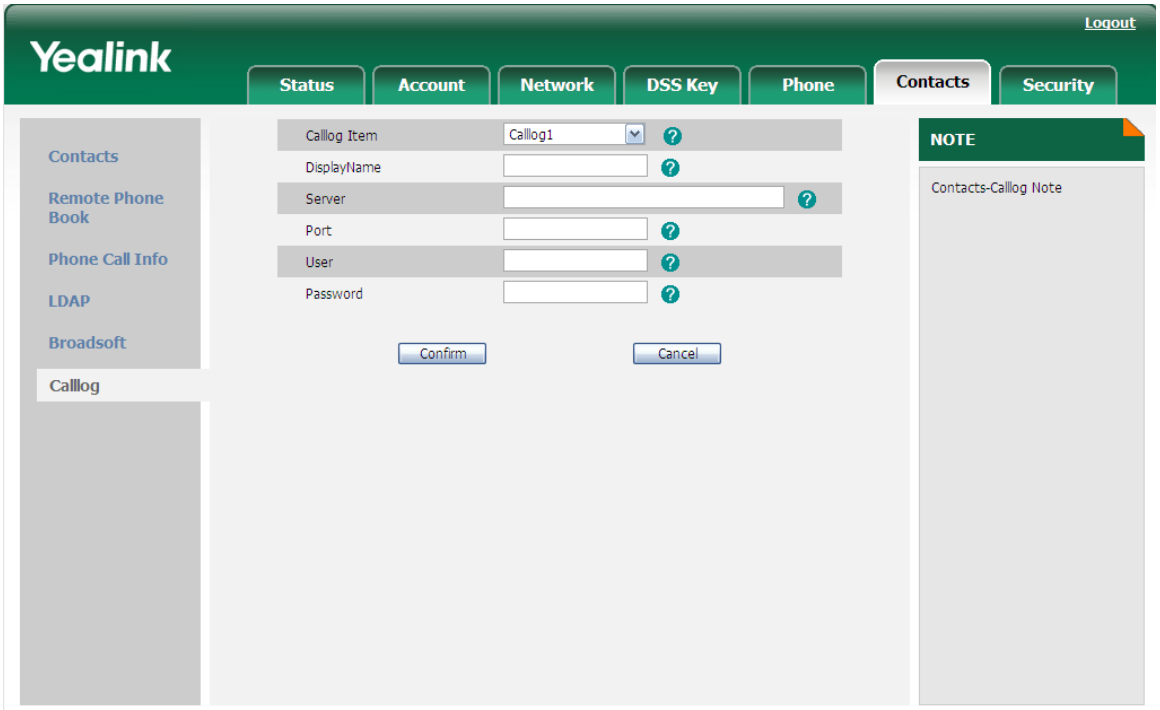
This feature allows you to download call history from the server.

Configure Broadsoft Call Log via phone interface:

1) Press Menu->Features->Broadsoft Settings Menu->CallLog Settings
2) Choose CallLog Item, enter the Display Name, Server, Port, User Name and Password.
3) Press the Save soft key to save the change.

Configure Call Log via web interface:

1) Choose Contacts->Call Log.
2) Choose the Calllog Item, and then input the DisplayName, Server, Port, User and Password.
3) Click the Confirm button to save the change.



Check Call Log via phone interface:

1) Press Menu->History->Network CallLog to enter the CallLog Menu page
2) Choose the Call log Item, press Enter soft key to download the call log.

History Setting

User can set up whether to save Call history Record or not. Enable this function, the phone will save the call history record, if choose disable, the phone will not save call history record.

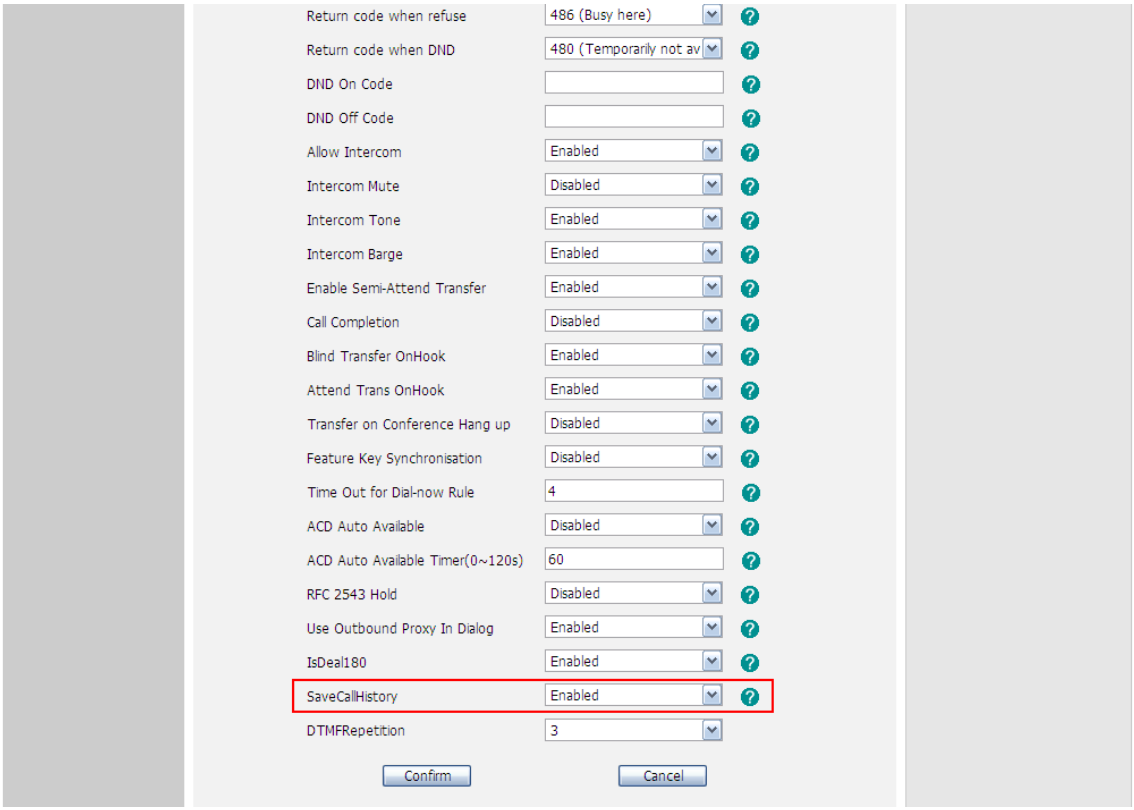
Configure this function via phone interface:

1) Press Menu->Features->History Setting.
2) By the Switch soft key, choose whether to enable this option.
3) Press the Save soft key to save the change.

Configure this function via web interface:

1) Choose Phone->Features-> SaveCallHistory.

2) In the pull-down menu, choose enable or disable this function.
3) Click the Confirm button to save the change.



Directory

Local Directory

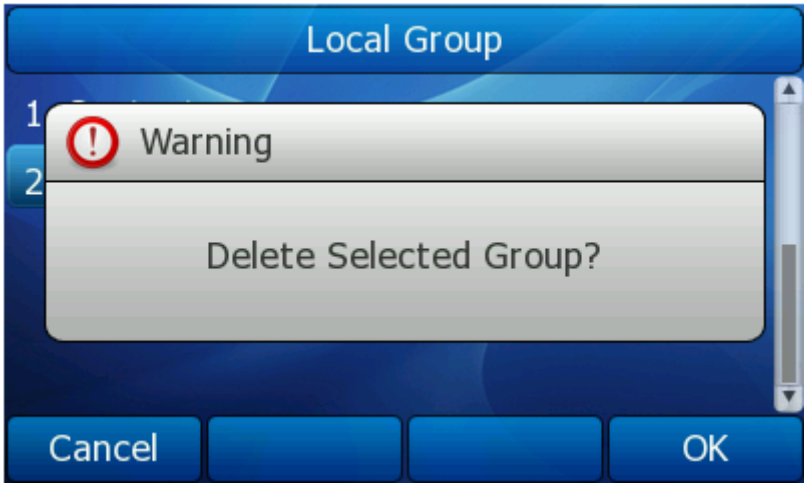
To add a Group via Phone interface:

1) Press Directory->Local Directory to enter into the contacts page.
2) Press AddGroup soft key to enter into the Add Group page.
3) Enter the Group Name and choose the Ring.
4) Press the Save soft key to save.

All the contacts will show on the Contacts group. For example: if you add a contact in AAA group. Add another contact in BBB group. And then you can check the records in each group. Also you can check all the records in Contacts group.

To delete a Group via Phone interface:

1) Press Directory->Local Directory to enter into the contacts page.
2) Choose a group, Press Option->Delete/Delete All Group soft key to delete this or all group.
3) It will pop up a warning window asking whether confirm to delete the group.



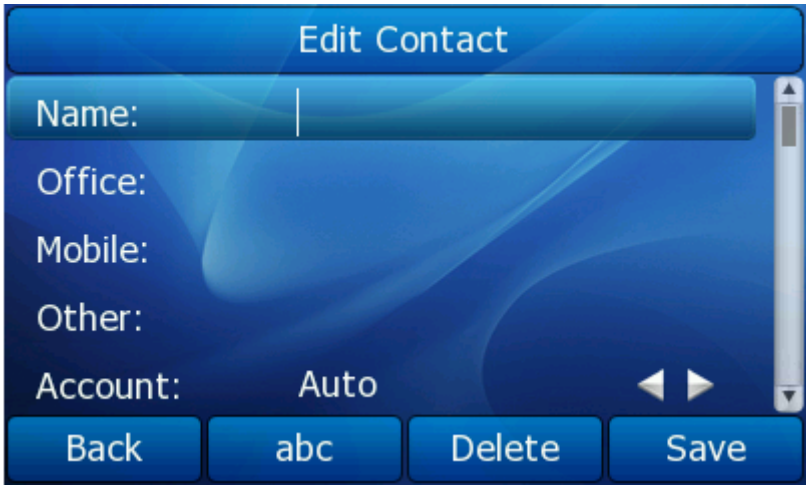
4) Press OK soft key to confirm the operation, or press the Cancel soft key to return to the directory.

Note: User cannot delete the Contacts group. Contacts is default system group, it can't be deleted. Our phone supports 20 contact groups.

To add a contact via Phone interface:

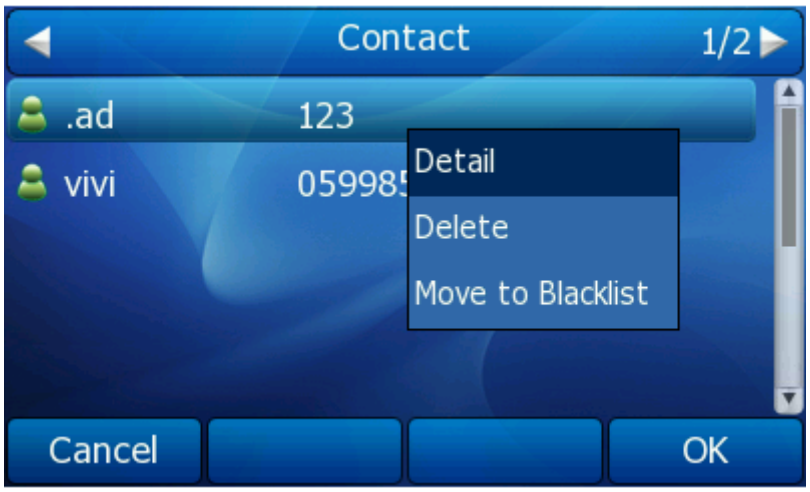
1) Press Directory->Local Directory
2) Choose a group, and press the Enter soft key.
3) Press Add soft key, enter Name, Office, Mobile, Other phone number. Use the abc soft key to choose an input method like Numeric, Upper/Lower Case Alphanumeric.

4) If you want to assign a contact to a specific account, you can use navigation key to select desired account.
5) Choose and set a special ring tone for the contact.
6) Use the navigation key to select the group which you want to assign.
7) Choose photo, and then press Enter soft key to enter into the edit page. Use the navigation key to select a photo for this contact. Press OK soft key to confirm and return to the previous screen.
8) Press Save soft key to add the record to contacts.



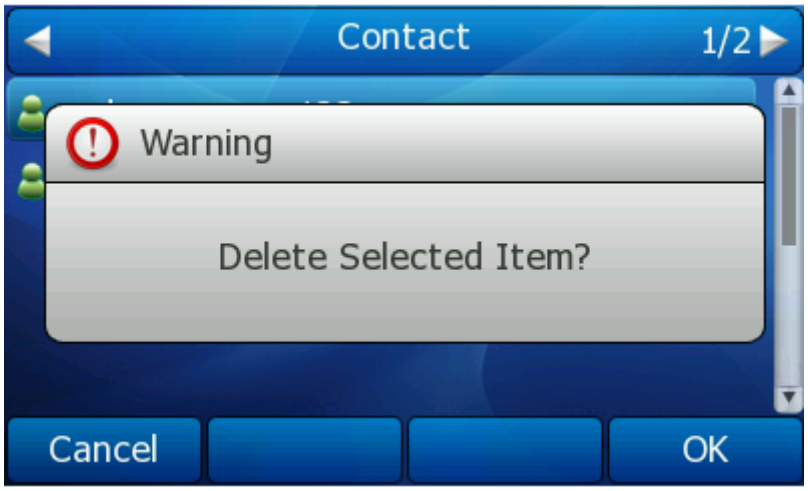
9) Press Save soft key to add the record to contacts or Back soft key to cancel.

To edit a contact via Phone interface:
1) Press Directory->Local Directory
2) Choose a group, and press the Enter soft key.
3) Use the navigation key to highlight the one you want to edit, press Option->Detail, and enter into the edit page.
4) And then make the change, press Save soft key to save the change, or press Back soft key to return to the directory.



To delete a contact via Phone interface:
1) Press Directory->Local Directory

2) Choose a group, and press the Enter soft key.
3) Use the navigation key to highlight the one you want to delete, press Option soft key, and scroll to Delete, press OK soft key.
4) It will pop up a warning window asking whether confirm to delete the contact.
5) Press OK soft key to confirm the operation, or press the Cancel soft key to return to the directory.



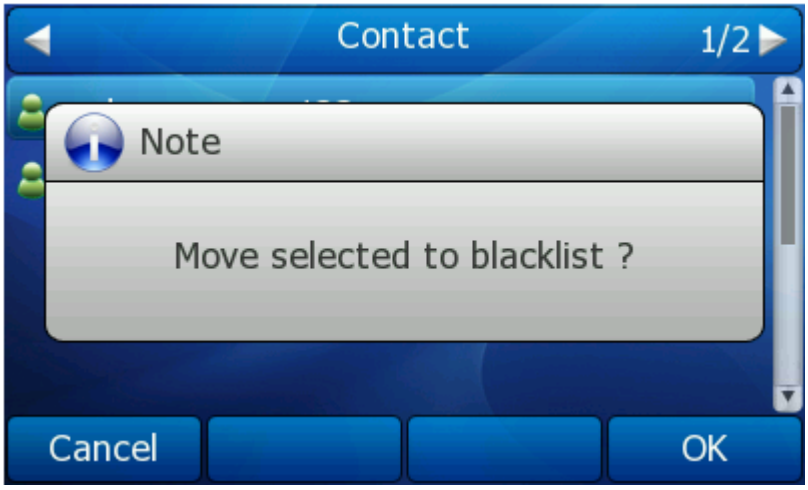
To search a contact via Phone interface:

1) Press Directory->Local Directory->Search to enter into the search page. Or choose a group and press the Enter soft key, then press the number keypad to enter into the search page directly.
2) It will turn to the search interface, and then you can enter the query condition, press the OK soft key.
3) Then the phone will show the record which qualified.

To move a contact to the Blacklist via Phone interface:

1) Press Directory->Local Directory
2) Choose a group, and press the Enter soft key.
3) Use the navigation key to highlight the one you want to move, press Option soft key, and scroll to Move to Blacklist, press OK soft key.

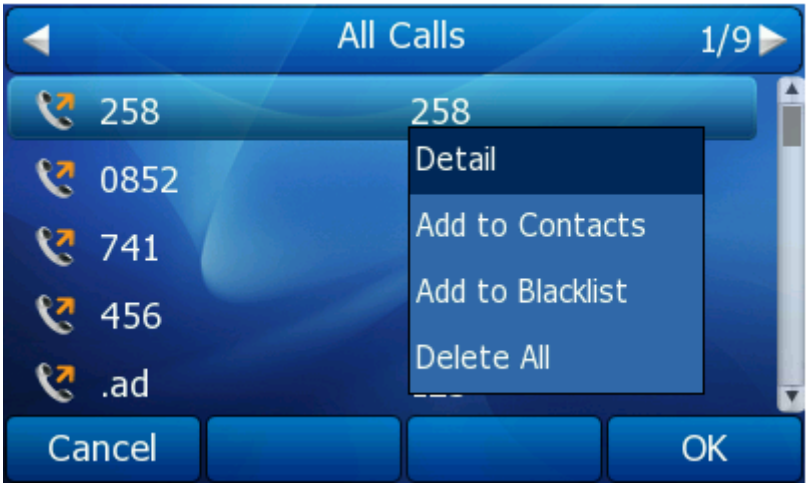
4) It will pop up a note window asking whether confirm to move the contact.
5) Press OK soft key to confirm the operation, or press the Cancel soft key to return to the directory.



Note:
If a contact is moved to the blacklist, then the call from this contact cannot get through.

To move a contact in History to Contacts via Phone interface:

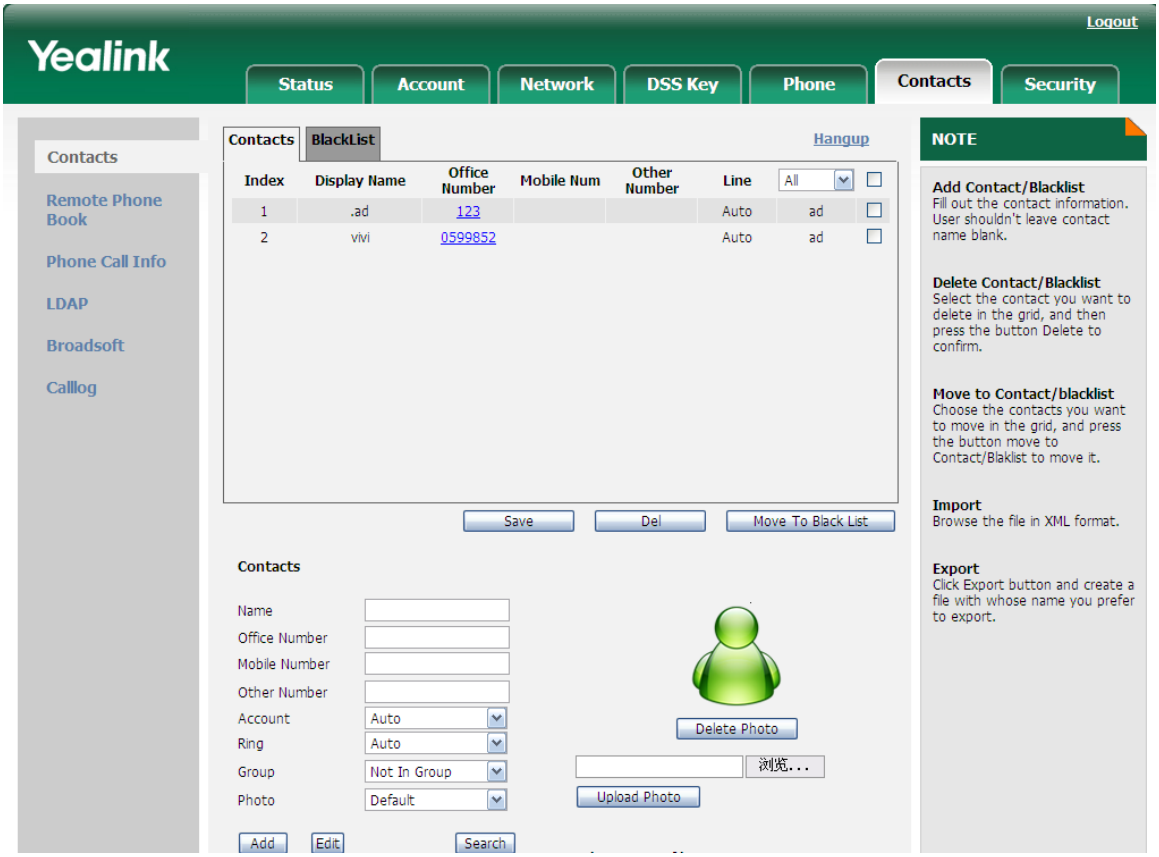
1) Press History soft key to enter the local call history list.
2) Use the navigation key to highlight a record, and then press the Option soft key to pop up the field, highlight Add to Contacts option, then press the OK soft key to enter the edit interface.
3) Press the abc soft key to switch the input method.
4) After the edition, press the Save soft key to save the change. Then you can go to Contacts interface to check the record.



To add/delete/edit/move the contacts via the Web interface:

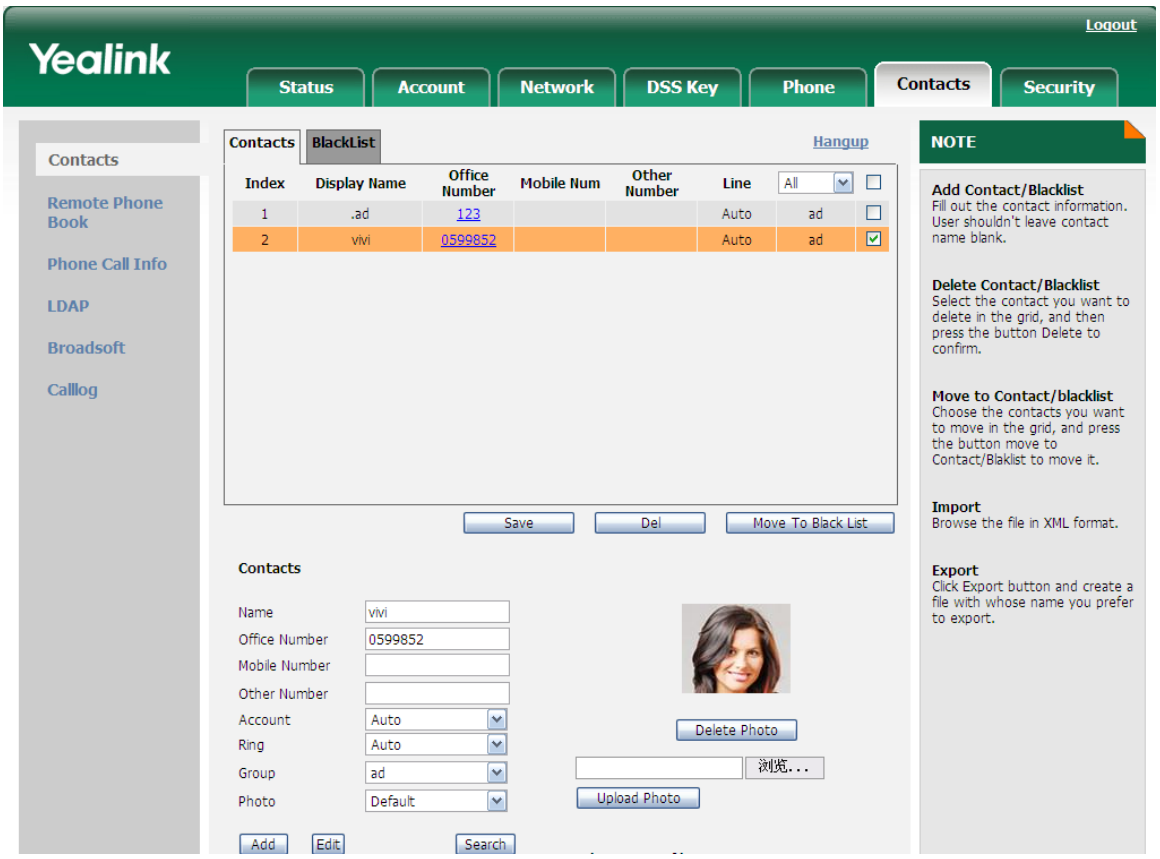
1) Choose Contacts->Contacts->Contacts. Please refer to the instruction above for the detailed parameters.

2) In this page, user also can upload/delete the contact phones .When finish the corresponding operation, you must click the Save button to save the change .And user also can export/import contact through this page, for more information ,you can refer to "Import/Export Contact list".



To upload the contact photos via web interface:

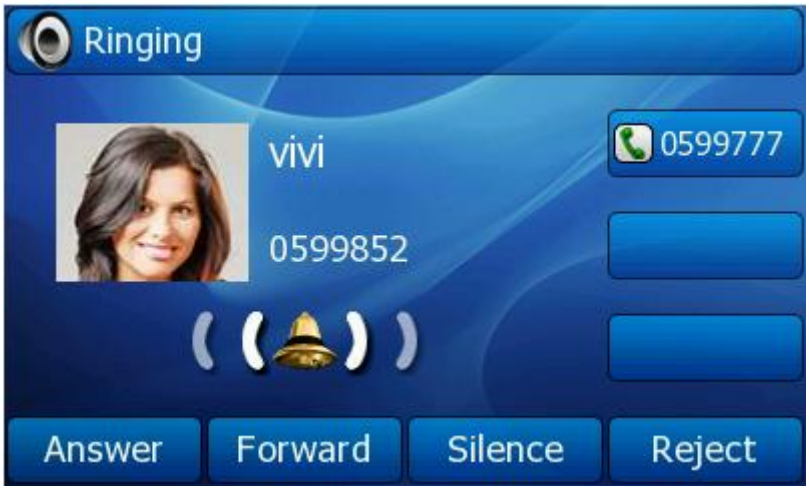
1) Choose Contacts->Contacts->Contacts, click the record which you want to edit, it will turn orange.
2) Click the Browser button under the contact photo frame, and then choose a photo from your local computer.
3) Click the delete photo button to delete the photo.

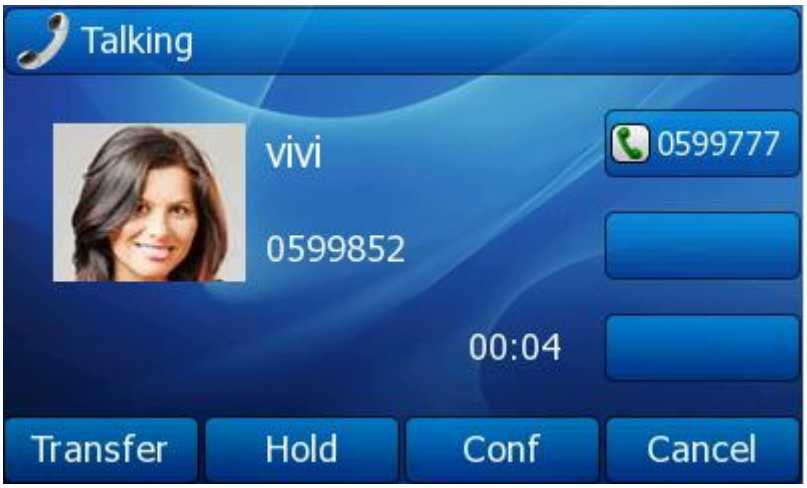


Note:

1. The uploading picture only supports .png/.jpg/.bmp format, and its appropriate resolution should be 96*96 pixels with a size no larger than 2MB.
2. User only can delete the picture which is uploaded.
3. A contact only can upload one customer photo .This photo should be renamed strictly according to the default name .If multiple contacts want to use the same photo ,this photo must be uploaded multiple times.

When there is a coming call from the contact, the phone idle interface will show the contact photo.

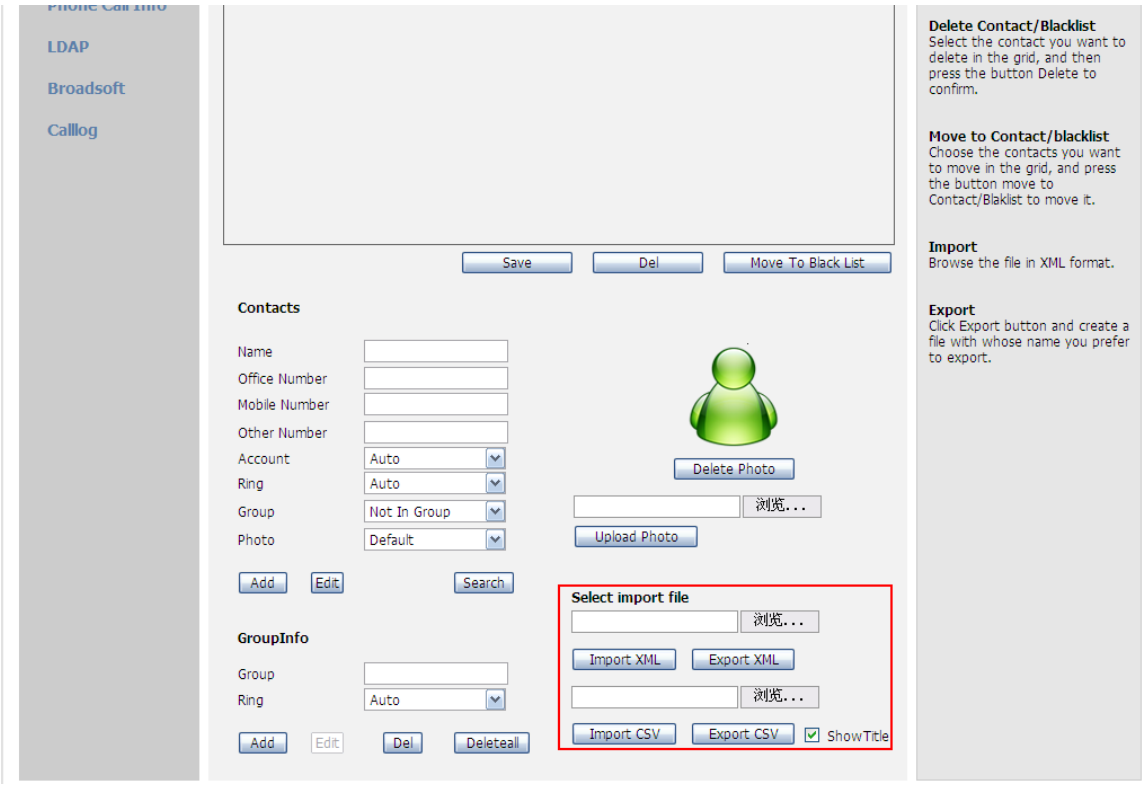




Import/Export Contact list

To import/Export Contact List via Web interface:

1) Choose Contacts-> Contacts-> Contacts.
2) In the Select import file field, browse the specific contact list file in .XML format or .csv format, and then click Import button. The imported contact lists will be shown in the directory.
3) Click the Export button to export the contact list.



Note:
Import/Export Contact List can only be operated via Web interface.

Blacklist

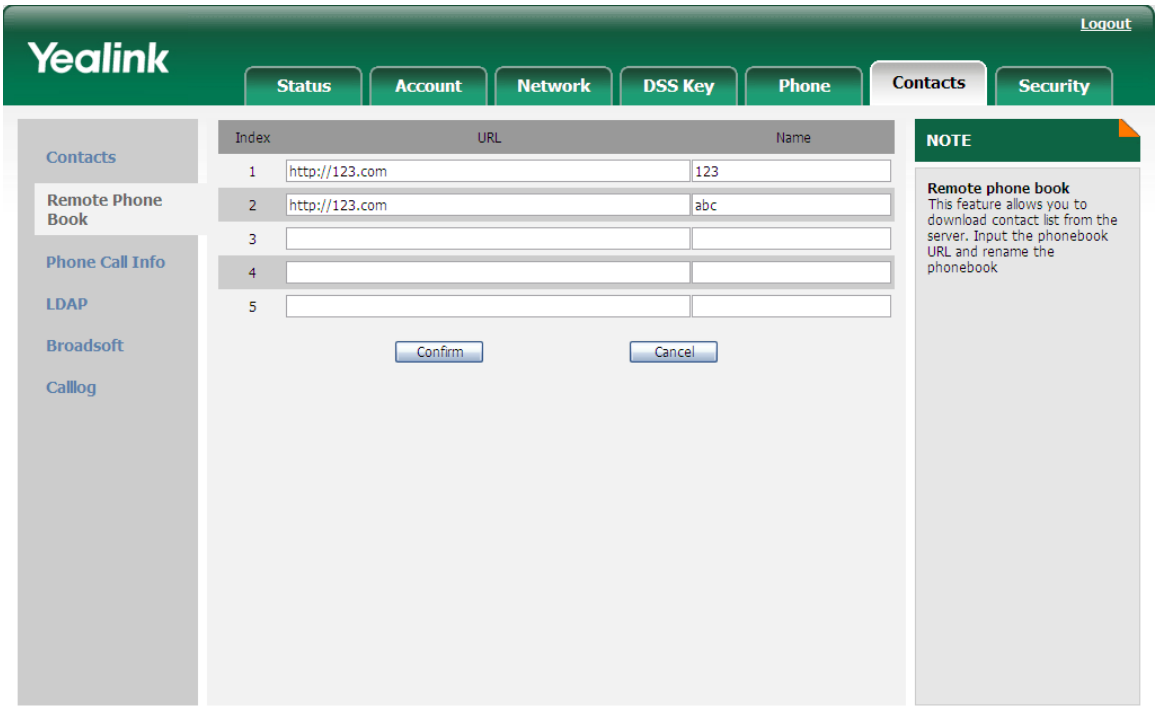
If you add a contact to blacklist, then the call from this contact cannot get through. The configuration steps are similar as configuring Local Directory. Please refer to the section of "Local Directory".

Remote Phonebook

The IP phone has directory itself, but in the enterprise applications where there are a need for a common phone book. For the maintenance and the update of it, the common phone book is usually carried out on the server or IPPBX to maintain up-to-date public phone book, terminal users need to have remote phone book function. When the users browse the remote phone book, the terminal will check and download the latest information released on the server in time, and display on the terminal for the user.

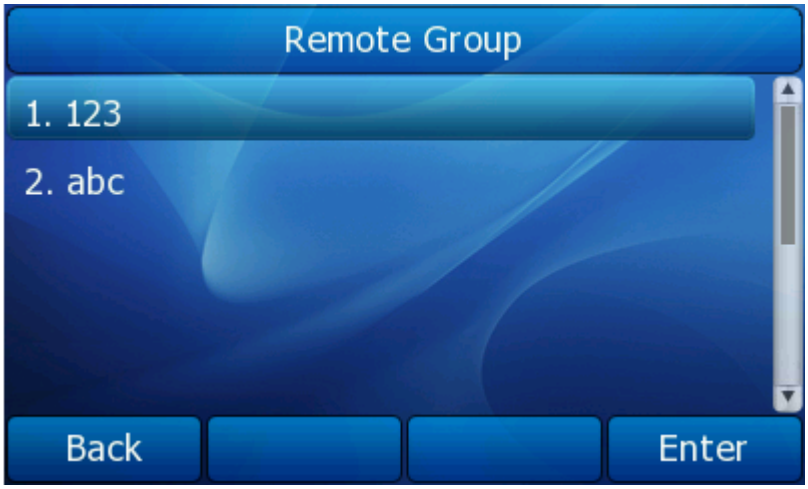
To set the Remote Phonebook via Web interface:

1) Choose Contacts->Remote Phone Book.
2) Input the Phone book URL and the phone book name, and then click the Confirm button to save the change.



To check the Remote Phone Book via Phone interface:

3) Press Directory->Remote Phonebook to enter the Remote Group page.
4) Choose a specific one, and press the Enter soft key, it will go to the corresponding URL address to download the contact information for you.



Note:
1. This IP phone can support 5 remote phone books at most.
2. Every contact in the remote phone book can set several phone numbers.

Broadsoft

Broadsoft phone book is the same as the Remote Phone Book. This feature allows you to download contact list from the server.
About how to configure this feature, you can refer to "Broadsoft Dir Settings".

LDAP

LDAP can support these functions:

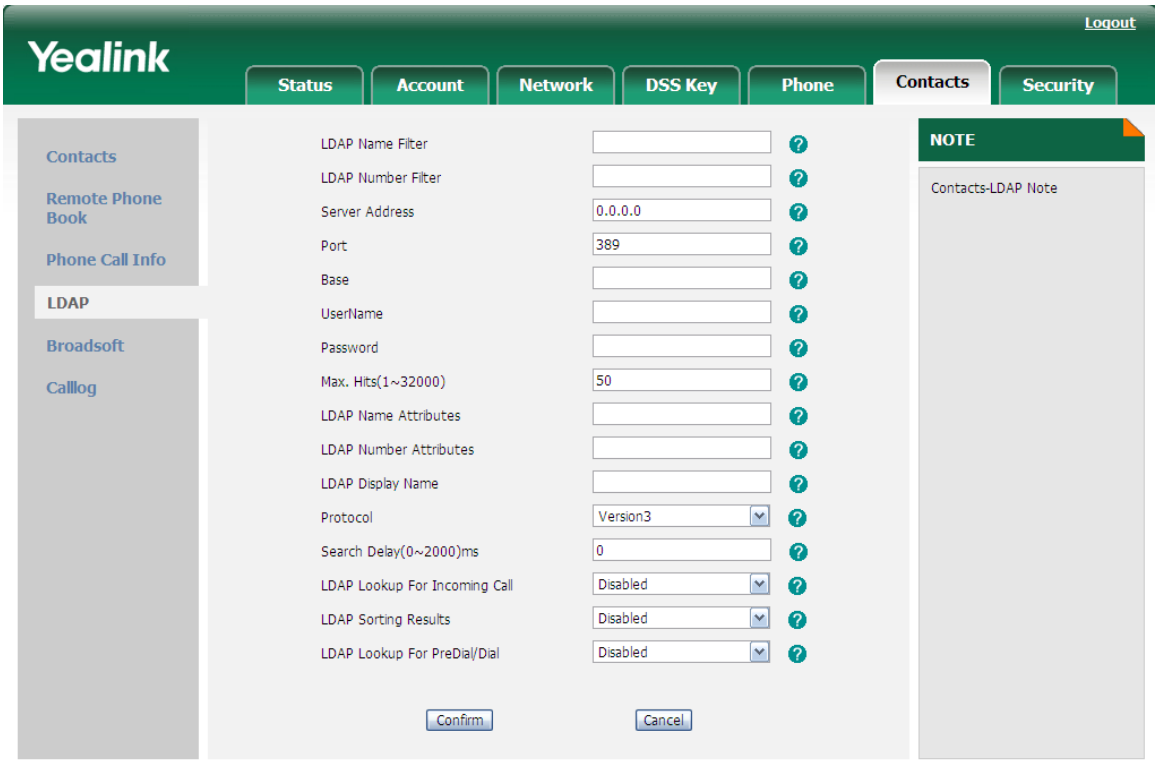
1. Search the contact: Press the DSS key which is set up as LDAP, input a number or letter in the new interface, the phone will search the contacts in LDAP server which following the Certain rules, and show them in the LCD, user can choose one contact to call out.

2. Search the incoming call: the phone will search the local directory when there is a coming call. If can't find it in local directory, the phone will turn to search in LDAP server and shows the corresponding contact name on LCD. The LDAP Lookup For Incoming Call option can be configured to enable or disable this function via web interface.

3. The function of Dial-up directory: under the dial interface, each time when you type a number or a letter, the phone will inquire for related contacts and show them on LCD for user to choose. The LDAP Lookup For PreDial/Dial option can be configured to enable or disable this function via web interface.

To set the LDAP via the Web interface:

1) Choose Contacts->LDAP.
2) Configure the corresponding options.
3) Click Confirm to save the change.



Note:
1. About the parameters, you must consult your system administrator

History

User can enter into the call log page to check the record. It includes local history and network call log.

Local History

Check the local history via phone interface:

1) Press Menu->History->Local History to enter the call log page.
2) Use Left/Right navigation key to switch the type: All Calls, Dialed Calls, Received Calls, Missed Calls and Forwarded Calls.
3) Use Up/Down navigation key to choose a record, you also can press Option soft key to check the details.

Network CallLog

This feature allows you to download call history from the server.
About how to configure this feature, you can refer to "CallLog Settings".

Messages

Voicemail

The phone supports SMS (Short Messaging Service) and Voicemail, if you want to use them, please make sure that your VoIP telephony system supports this function and your accounts' message has been enabled.
Your voice mailbox messages, which are usually stored on a media server of your local or hosted VoIP telephony system, can be accessed from your phone.
New voice messages can be indicated both acoustically and visually as described below:

- The idle screen will indicate the new voice messages coming.
- The MESSAGE button will be lighted.

To configure the Voicemail code via Phone interface:

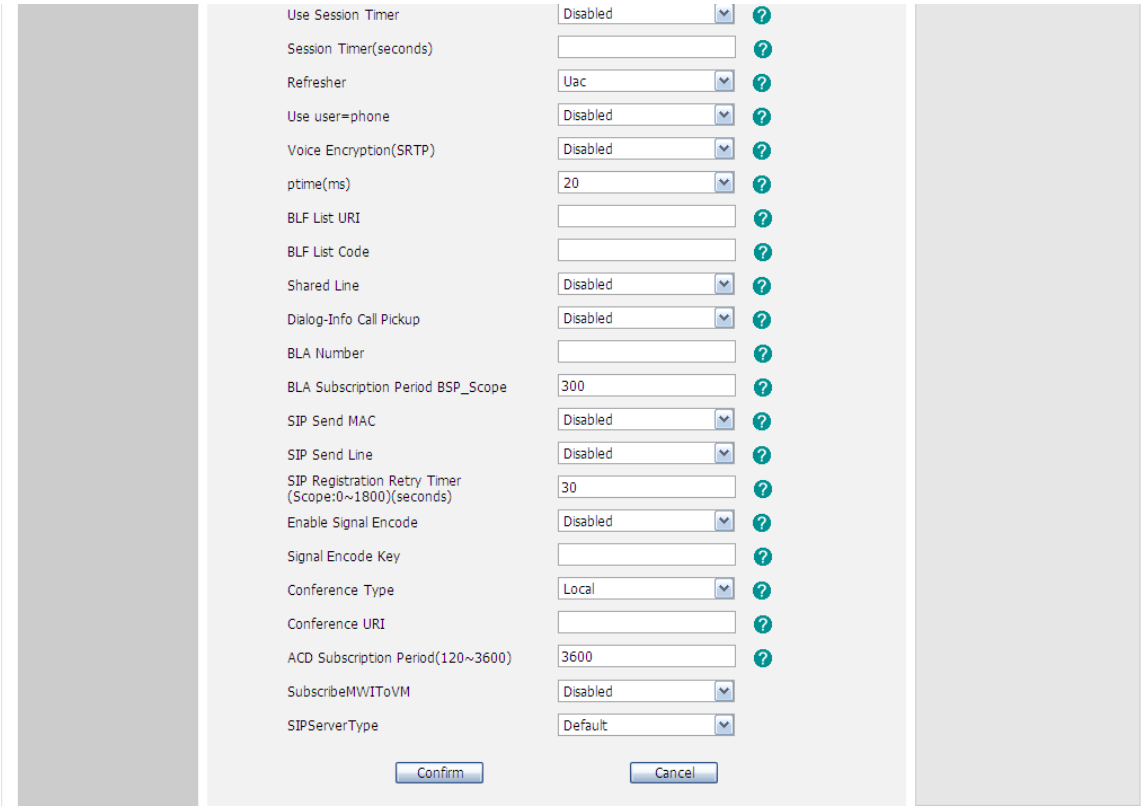
1) Press Menu->Messages->Voice Mail->Set Voice Mail.

2) Use the navigation key to highlight the line for which you want to set, enter the code which the phone uses to connect to your system. Press 123 soft key to choose the proper input method.
3) Press Save soft key to save the change, or Back to return to the previous menu.

Note:
Please contact your system administrator for the connecting code. Different systems have different codes.

For some servers you have to enable Subscribe for MWI via web interface firstly so that the Phone Interface could show the amount of Voice mails.

1) Choose Account->Advanced-> Subscribe for MWI.
2) Choose enable in the pull-down menu.



To view the voicemail via the Phone interface:

1) Press Menu->Messages->Voice Mail->View Voice Mail.

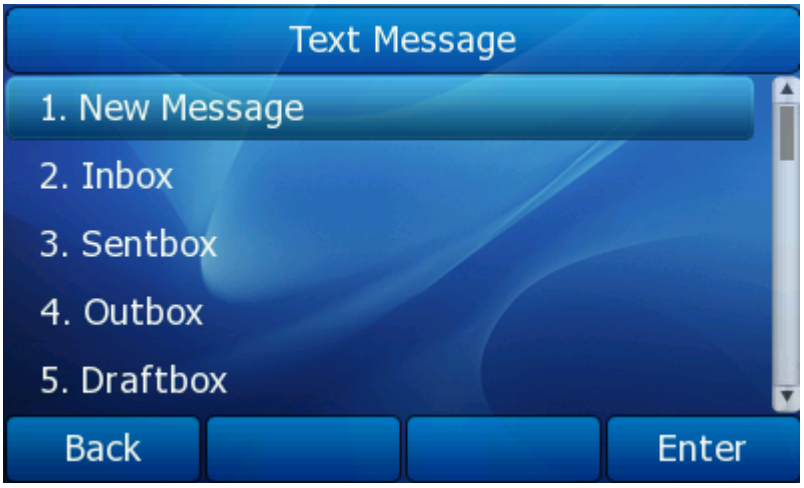
2) You can view the amount of the voice mail that includes new or old voice mails.
3) Choose the account and then press the Connect soft key, then you are able to listen to your new and old messages.

Note:
Before listening to the voicemail, please make sure that the connecting code has been set on the phone.

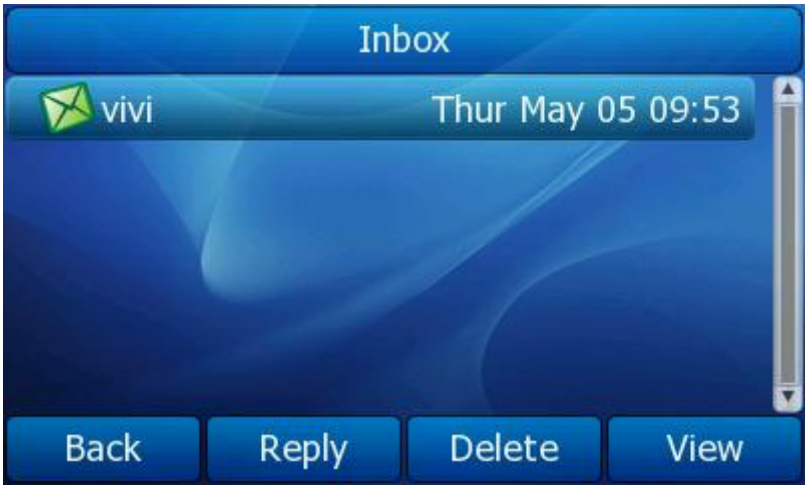
SMS

To view the SMS via Phone interface:

1) Press Menu->Messages->Text Message to enter the text message page.
2) Use the Up/Down navigation key to highlight the options. You can read the message in the Inbox/ Sentbox/ Outbox/ Draftbox.



3) Press Enter soft key, use the Up/Down navigation key to choose a message,
4) Press View soft key to read the message.



To reply the SMS via Phone interface:

1) Press Reply soft key after viewing the message, enter the contents, use the abc soft key to change the Input Method.

2) Press Send soft key, you are required to choose an account which is used to send out the message and the number you want to send to.
3) Press Send soft key to send out the message, or Back soft key to return to the previous menu.

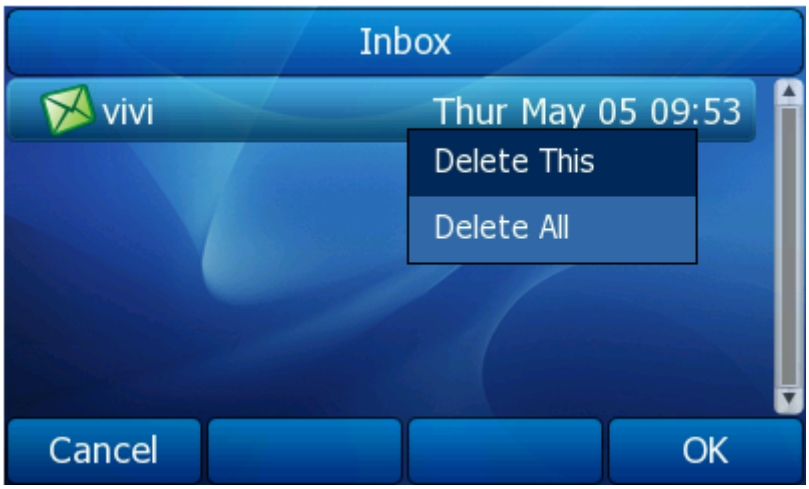
To edit a new message via the Phone interface:

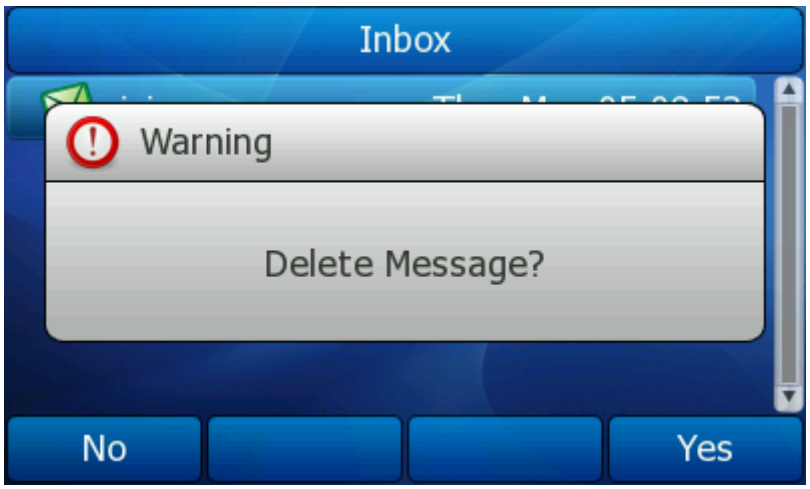
1) Press Menu->Messages->Text Message->New Message to enter.
2) Edit the new message, use the abc soft key to change the input method.
3) Press Send soft key, you are required to choose an account which is used to send out the message and the number you want to send to.
4) Press Send soft key to send out the message, or Back soft key to return to the previous menu.

To delete the message via the phone interface:

1) After viewing the specific message, user can delete the message.
2) Choose a message which you want to delete, press Delete soft key.

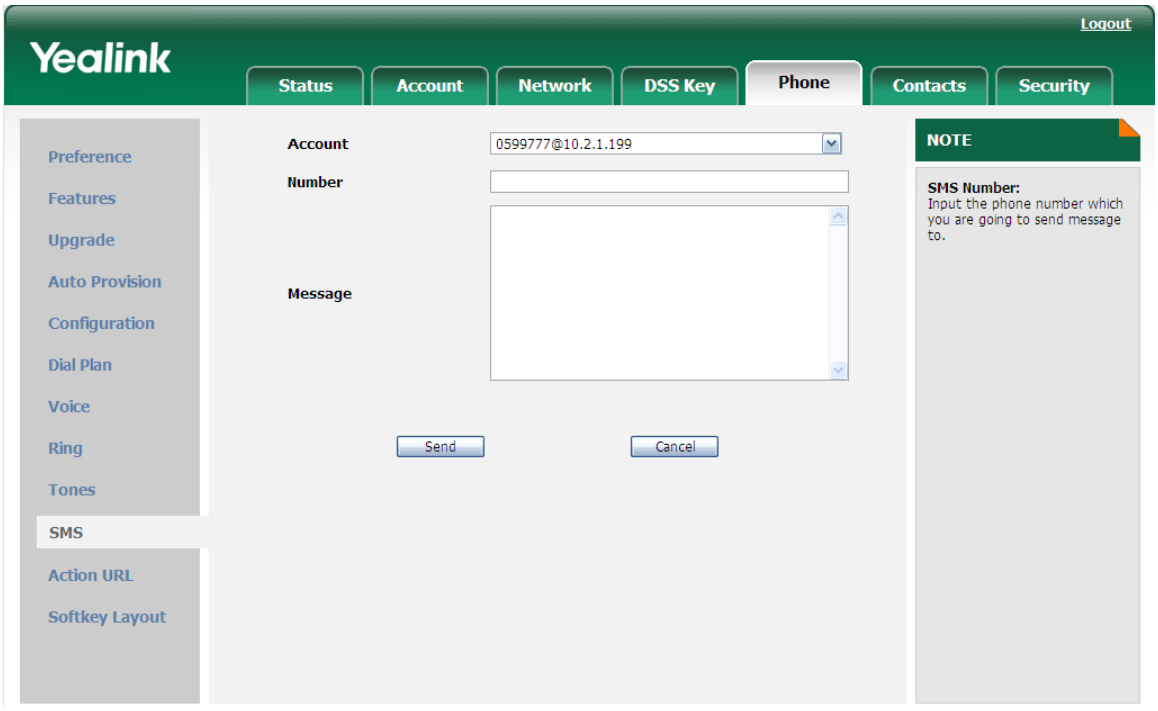
3) Choose to delete a message or delete all messages, press OK soft key.
4) You are prompted to confirm the delete operation, press Yes soft key to delete the message, or No soft key to return to previous menu.





To edit the message via Web interface:

1) Choose Phone->SMS.
2) You are required to choose an account which is used to send out the message and the number you want to send to.
3) Enter the Message content in the Message field.
4) Press Confirm button to send out the message or Cancel button to cancel the operation.


Logout
Yealink
Status
Account
Network
DSS Key
Phone
Contacts
Security
Preference
Features
Upgrade
Auto Provision
Configuration
Dial Plan
Voice
Ring
Tones
SMS
Action URL
Softkey Layout
Account
0599777@10.2.1.199
Number
Message
Send
Cancel
NOTE
SMS Number:
Input the phone number which you are going to send message to.

Setting

Basic Settings

Language

The default Phone interface language is **English**. The Web interface language will depend on your computer Operation System. It will automatically match the language with your computer and browser.

It supports Simplified Chinese, Traditional Chinese, French, German, Italian, Portuguese, Spanish, etc. user can change the language of the phone interface and the web interface independently from each other.

To change the phone interface language via Phone interface:

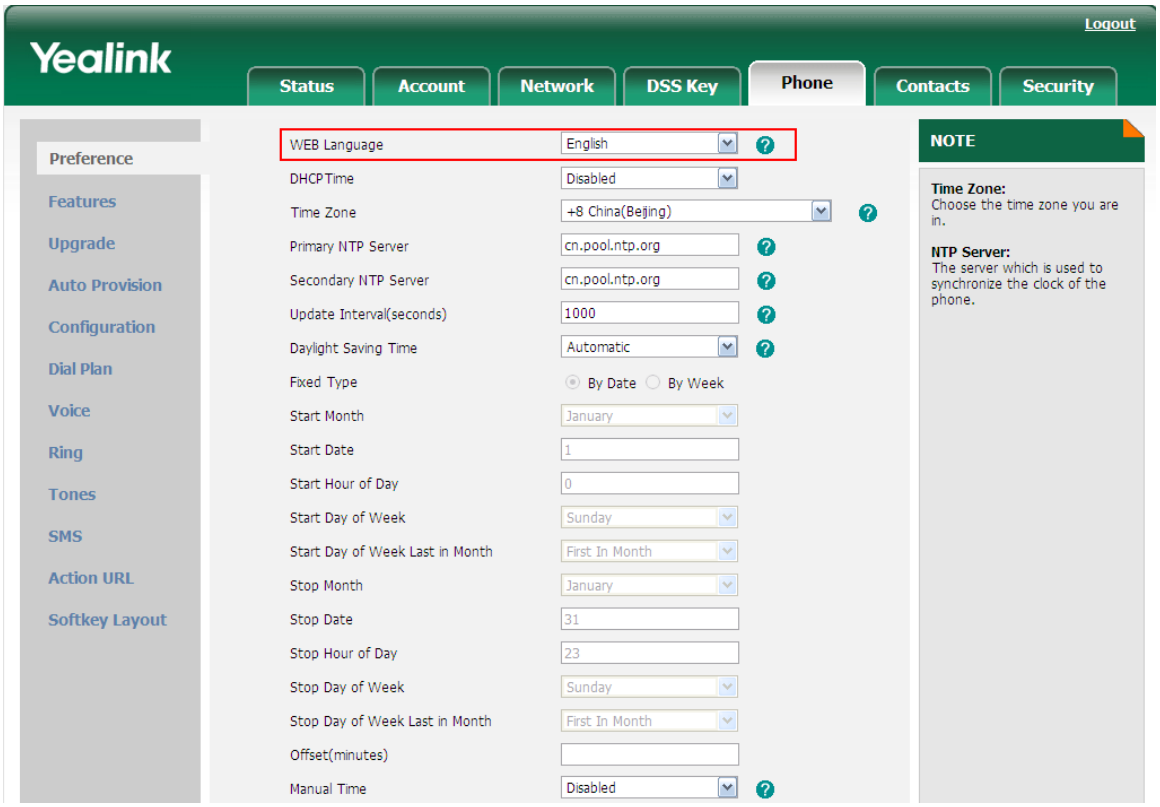
1) Press Menu->Setting->Basic Settings->Language.
2) Scroll through the list of available languages.
3) Press the Save soft key when the desired language is highlighted. The language appears on the graphic display will be changed to the one you chose.

4) Press Save soft key to save the change.

Note:
All languages may not be available for selection. The available languages depend on the language packs currently loaded to the IP phone. Please contact with your system administrator for more information about loading language packs.

To change the web page language via Web interface:

1) Choose Phone->Preference->WEB Language.
2) In the drop-down list, select the displayed language for web page.
3) Click the confirm button to save the change.



Time & Date

The time and date appears on the idle screen of the IP phone. If the phone cannot obtain a time and date from the call server, please contact your system administrator. If the time or date is incorrect, you can set the time manually or via the SNTP server which is used to synchronize the time.

To change the Time and Date via the Phone interface:

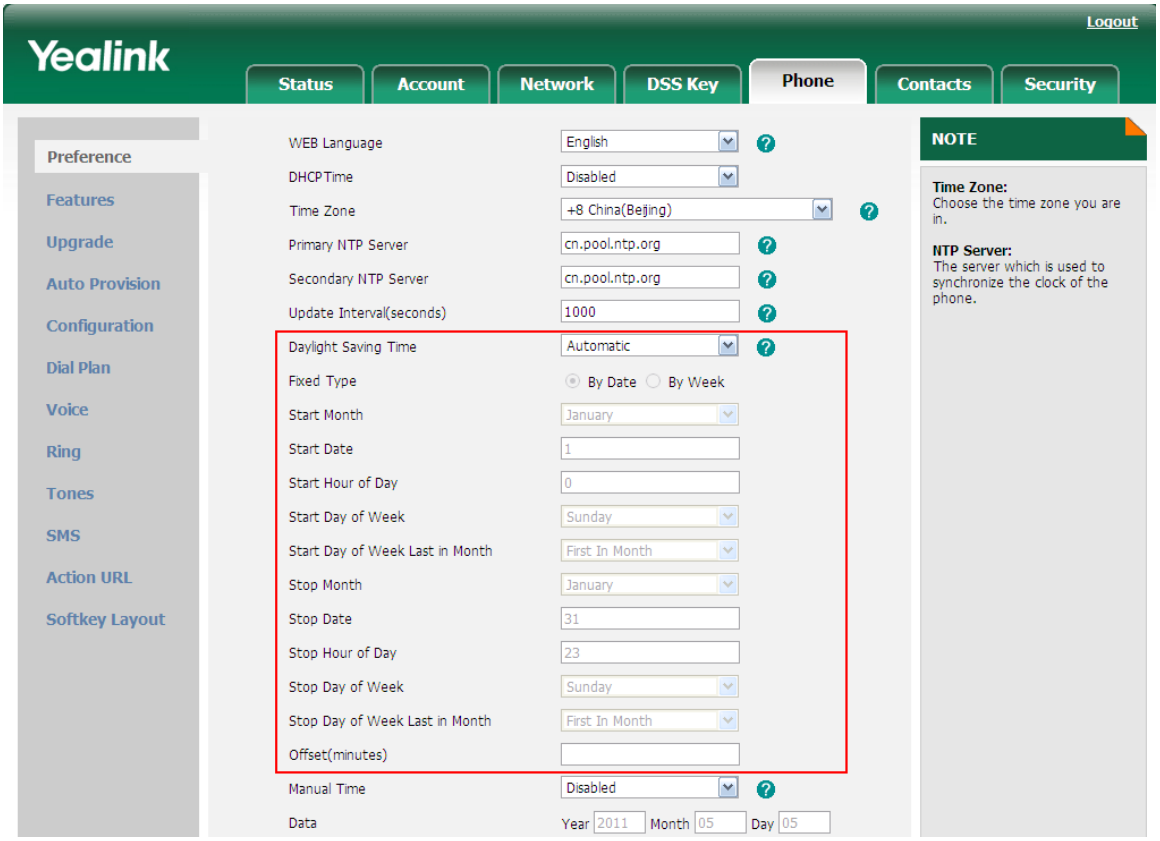
1) Press Menu-> Setting->Basic Settings ->Time & Date.
2) If SNTP Settings is chosen, the phone will automatically get the time from the specific NTP Server. Use the navigation key to highlight the specific option and the relating changes. User can set the Time Zone, NTP Server1/NTP Server2, and Daylight Saving respectively.

3) If Manual Setting is chosen, the time can be set manually. Use the navigation key to highlight the option and enter the specific date and time.

4) Press Save soft key, the time appears on the idle screen will be changed.

To change the Daylight Saving Time Settings via the Web interface:

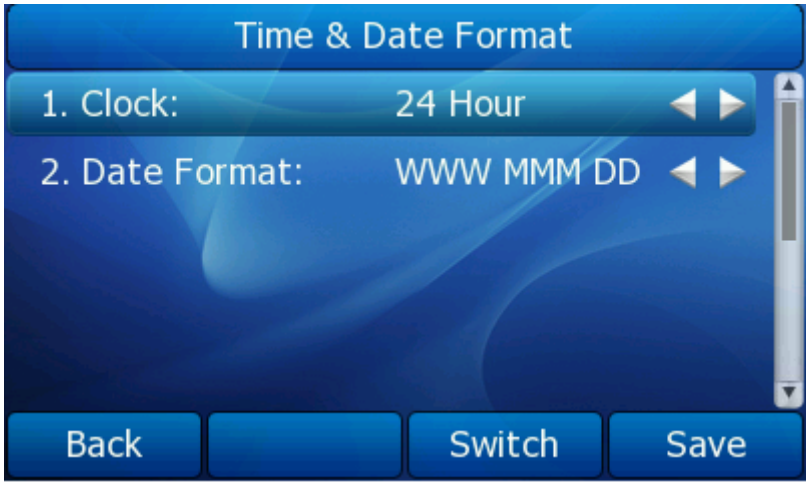
1) Choose Phone->Preference->Daylight Saving Time to do the relating changes.
2) Choose Enable option, and then you can set the Daylight Saving Time. You can set daylight time by date or by week, and choose or enter the corresponding contents
3) Choose Automatic. There is a table named as AutoDST.xml has been saved in the configuration file, if the table includes daylight saving time of your time zone, it will show the Fixed Type: By Date or By Week. And the daylight saving time is unchangeable, unless to update the AutoDST.xml via auto provision.



Time & Date Format

To set the time & date format via phone interface:

1） Press Menu-> Setting->Basic Settings ->Time & Date Format.



2） Use the Switch soft key to choose a preferred time format: 12 Hour or 24 Hour.

3） Use the navigation key to choose a preferred date format, the IP phone can support 7 kind of date display formats.

4） Press the Save soft key to save the change.

DHCP Time

User can set the phone to get time automatically from DHCP server.

To set this function via phone interface:

1) Press Menu-> Setting->Basic Settings ->DHCP Time
2) By the Switch soft key, choose whether to enable this option.
3) Press the Save soft key to save the change.

NOTE:

1) User can set the time information via web interface, Choose Phone->Preference, choose the Corresponding options to configure.
2) For more information about the function, user can refer to the contents above.

Ring Tone

You can adjust the type and volume of the ring tone.

To adjust the Ring Tone Type via Phone interface:

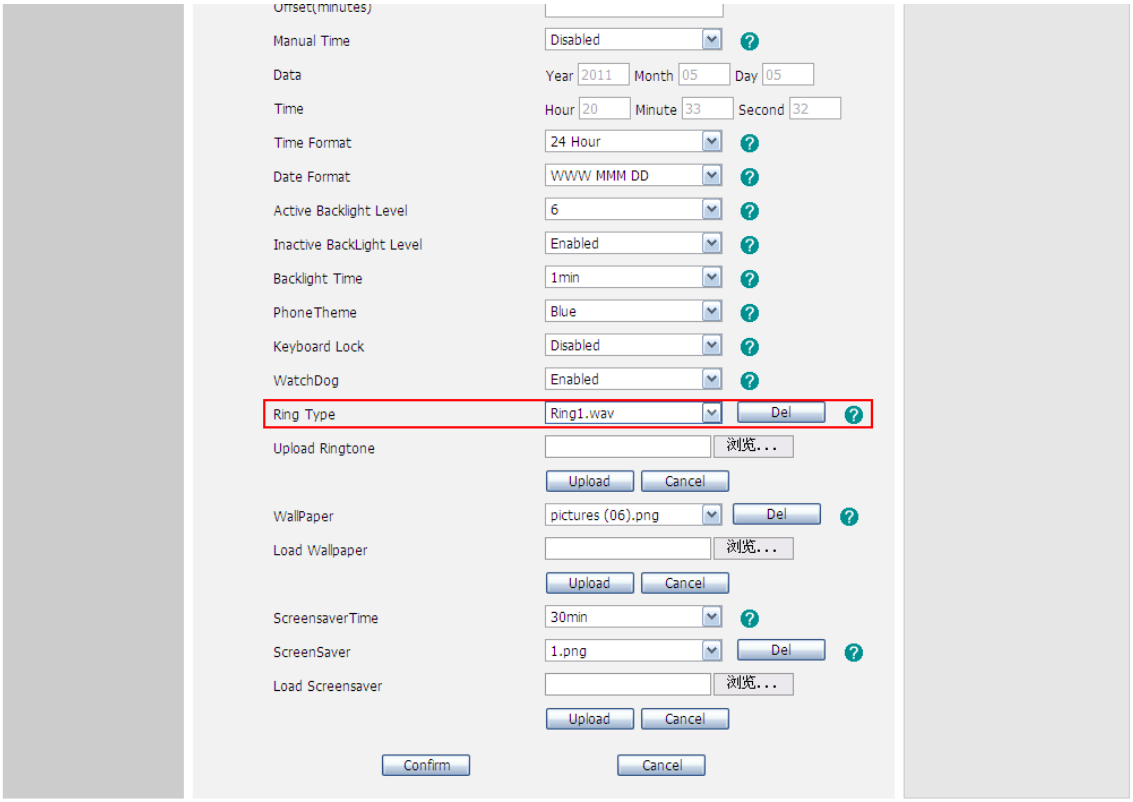
1) Press Menu-> Setting->Basic Settings-> Ring Tone.
2) Use the navigation key to highlight the specific one.
3) Press Save soft key to save the change.

To change the Ring Tone Type via Web interface:

1) Choose Phone->Preference->Ring Type.
2) Highlight the specific one in the pull-down menu.

3) Click confirm button to save the change.

4) You can also delete the specific one by clicking the Del button.



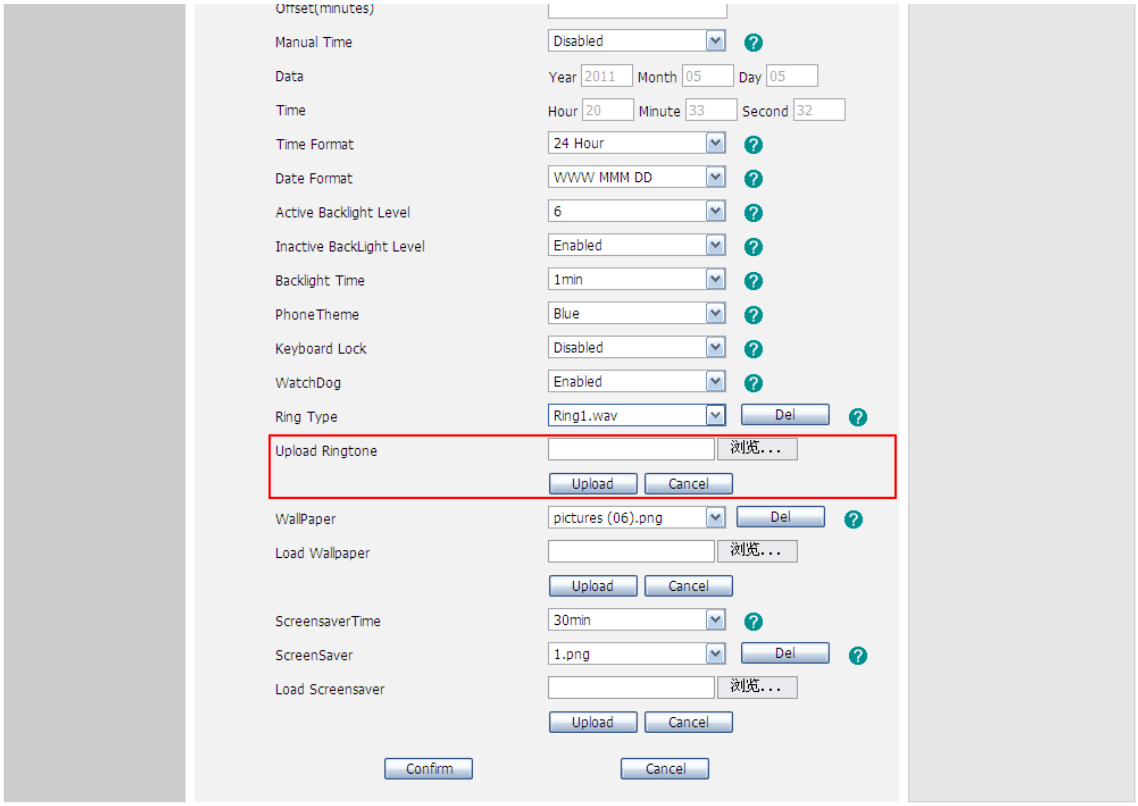
Note:
The ring tone file of system cannot be deleted.

To upload the new Ring Tone via Web interface:

1) Choose Phone->Preference->Upload Ringtone.

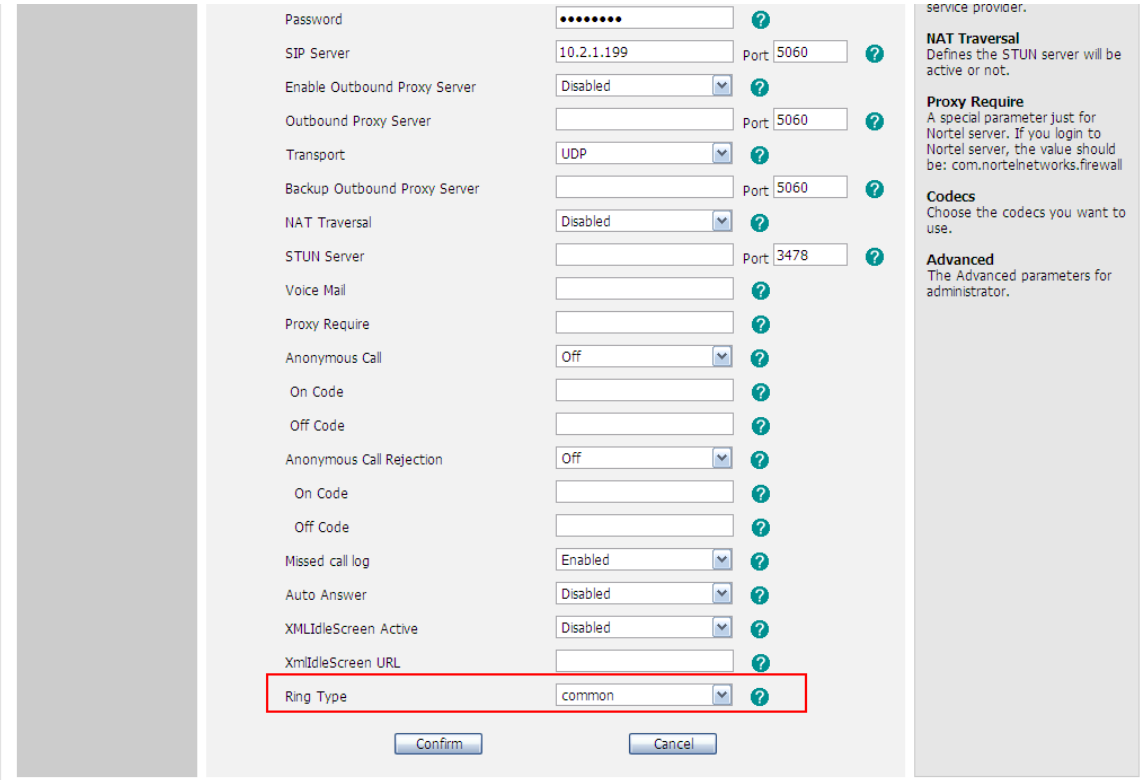
2) Click Browse button to choose the specific ring tone file.

3) Click Upload button to upload the file.



Note:
The ring tone file format must be 16bits WAV format, 8K sample rate. Blank or other special characters cannot be included in the file name.

To specify ring tones for a specific account via Web interface:
Choose Account->Basic->Ring Type option, and highlight the preferred one for the chosen account in the pull-down menu, then click confirm button to save the change.



You can adjust the volume of handset/speaker/headset/Ring.

On the corresponding interface, press the Volume adjusting bar to adjust the corresponding volume.

For example:

1) On the idle interface, press the Volume adjusting bar to adjust the ring tone volume.
2) On the Handset/Speaker/Headset call interface, press the Volume adjusting bar to adjust the Handset/Speaker/Headset call volume.

Advanced Settings

User can enter the advanced settings page to configure some advance features. Enter into the advanced settings page must input administrator password at first.

Account

Please refer to the previous part "Configuration and Registration" for the basic Account setting information.

Network

WAN Port

Please refer to the previous part "Configuration and Registration" for the basic WAN setting information.

PC Port

The following table lists the instructions of the field about the Network PC Port Setting.

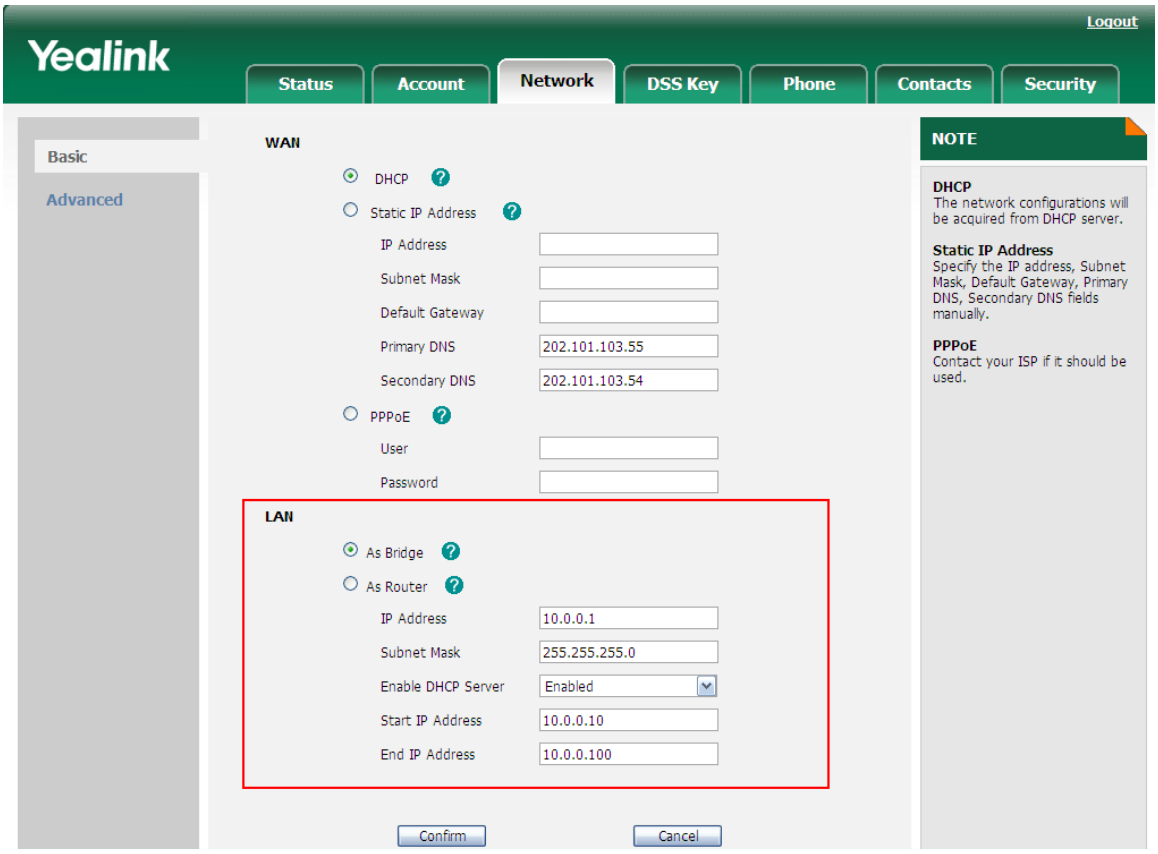
Field Name	Description
As Bridge	If you select the Bridge mode, then the two Fast Ethernet ports will be transparent.
As Router	If you select the Router mode, the SIP phone will work as a router.
--IP address	User could configure the PC port IP address.
--Subnet Mask	User could configure the PC port Subnet Mask.
--DHCP Server	If you set the DHCP server on, the device connected to the PC port will get the IP address automatically between the start IP address and the end IP address. But if you select the bridge mode, the DHCP server cannot work.
--Start IP Address	Indicate the range of the IP address.
--End IP Address	Indicate the range of the IP address.

To configure PC Port settings via Phone interface:

1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Network option, select PC Port option.
3) If you choose Bridge, set the PC's port as bridge mode, and then it will save and return to the previous menu.
4) If you choose Router, you will be prompted to enter the IP Address, Subnet Mask, DHCP Server Disable/Enable, etc.
5) Press Save soft key to save the change.

To configure PC Port settings via Web interface:

Choose Network->Basic->LAN to do the relating configuration, you can consult your system administrator for more information.

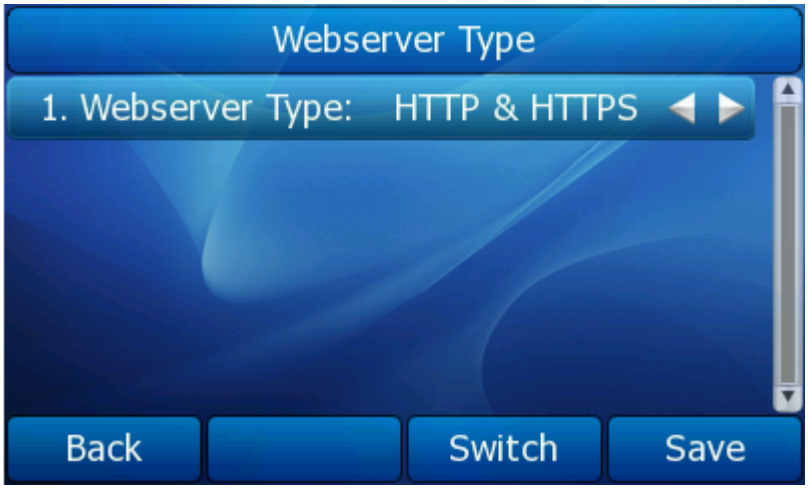


Webserver Type

It is the definition of web access type and port. This IP phone can support HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) and HTTP. Adding SSL layer under HTTP, in short, it is a security version of HTTP. Users can set this transmission mode via web page.

To configure HTTPS settings via Phone interface:

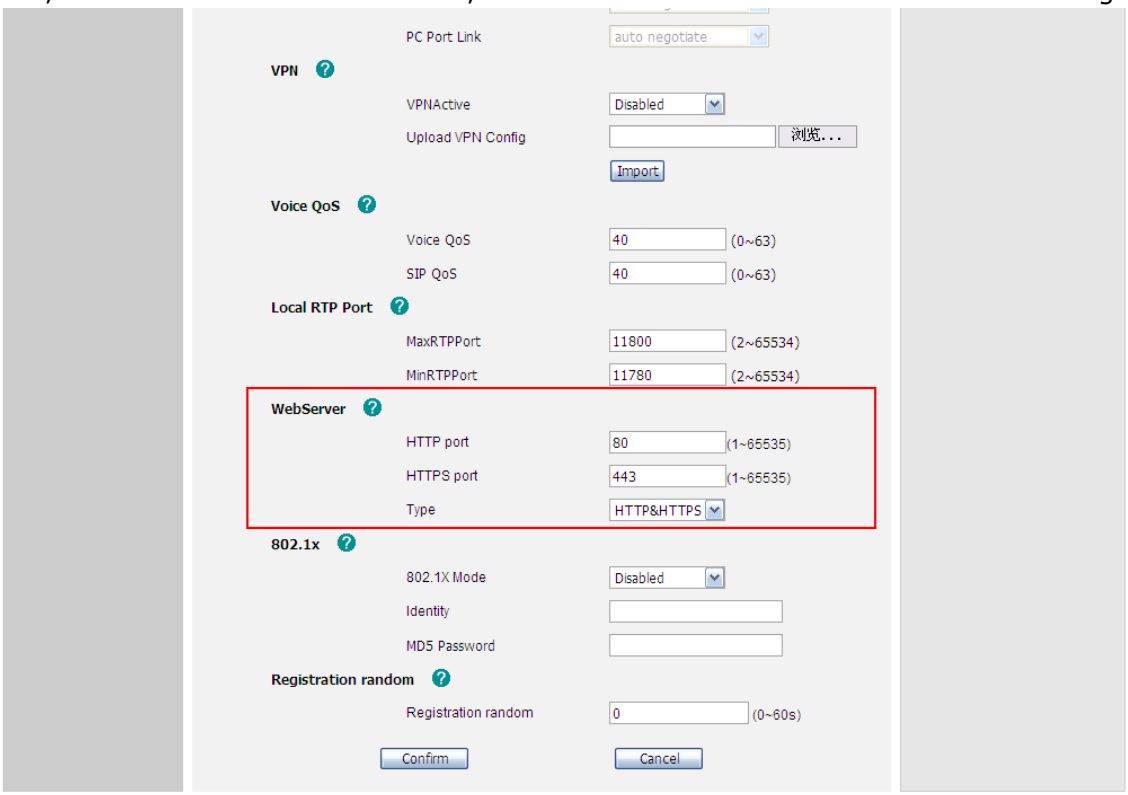
1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Network option, select Webserver Type option.



3) Press the navigation key or Switch soft key to choose the transmission mode.
4) Press Save soft key to save the settings.

Note:
1. For more information/details about Webserver Type, please contact with your system administrator!
2. IP phone also support Internet Protocol Version 6.

To configure web server type via Web interface:
Go to Network->Advanced, choose WebServer option, in the pull-down menu of Type field, choose the transmission mode, then click the Confirm button to save the change.



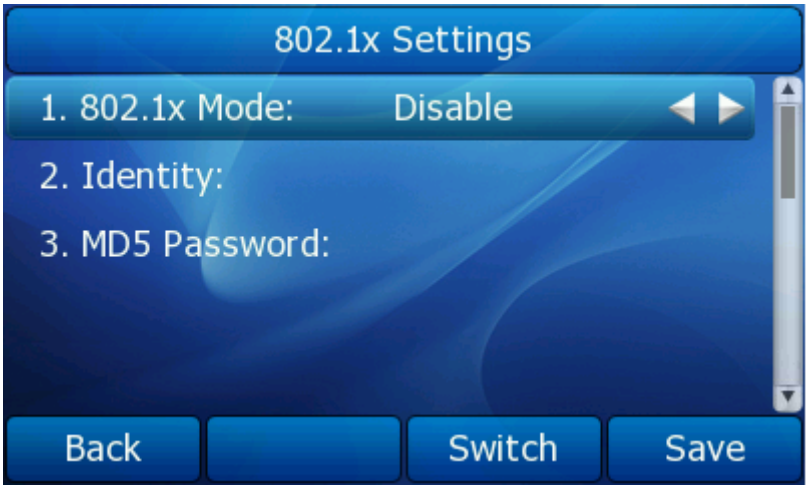
802.1x Settings

IEEE 802.1X is an IEEE Standard for port-based Network Access Control (PNAC). It is part of the IEEE 802.1 group of networking protocols. It provides an authentication mechanism to devices wishing to attach to a LAN, either establishing a point-to-point connection or preventing it if authentication fails. It is used for securing wireless 802.1x access points and is based on the Extensible Authentication Protocol (EAP).

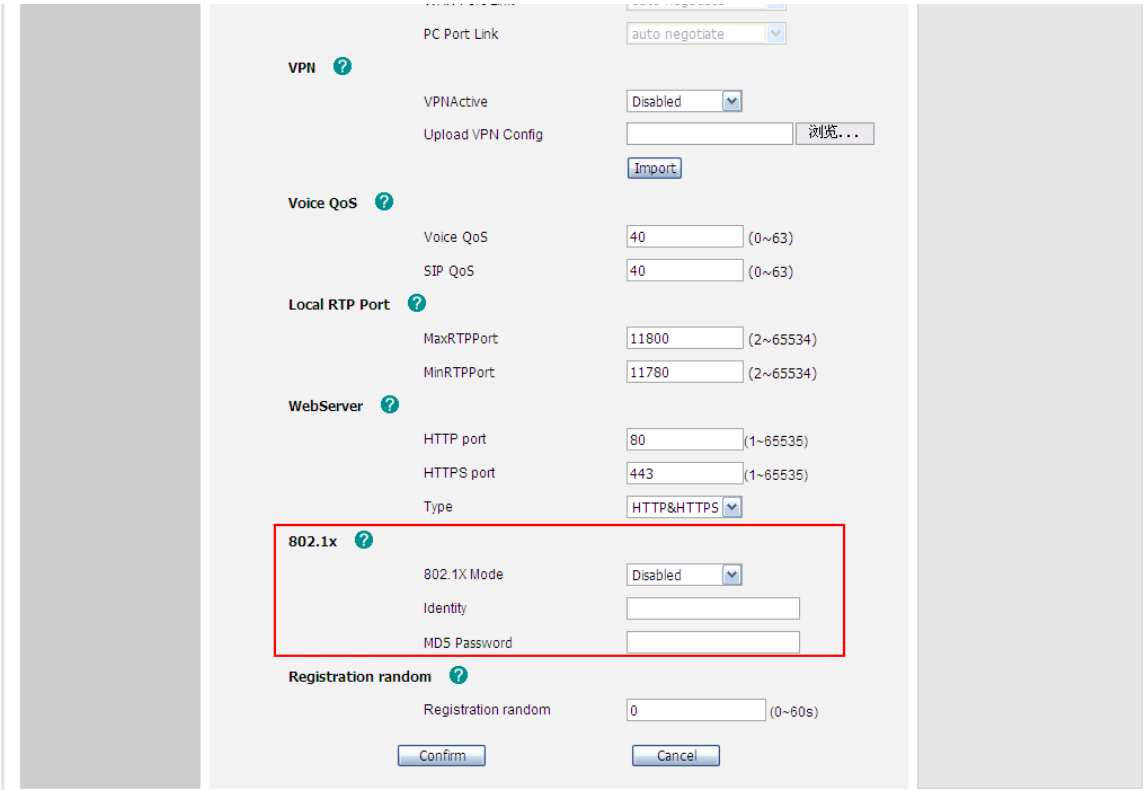
This IP phone can support 802.1X. For the details, please consult your system administrator.

To configure 802.1x Settings via Phone interface:
1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Network option, select 802.1x Settings option.

3) Choose enable/disable the 802.1x Mode.
4) Enter the Identity and MD5 Password.
5) Press Save soft key to save the settings.



To configure 802.1x Settings via web interface:
Choose Network->Advanced->802.1x to do the relating configuration.



VPN

A virtual private network (VPN) is a computer network that uses a public telecommunication infrastructure such as the Internet to provide remote offices or

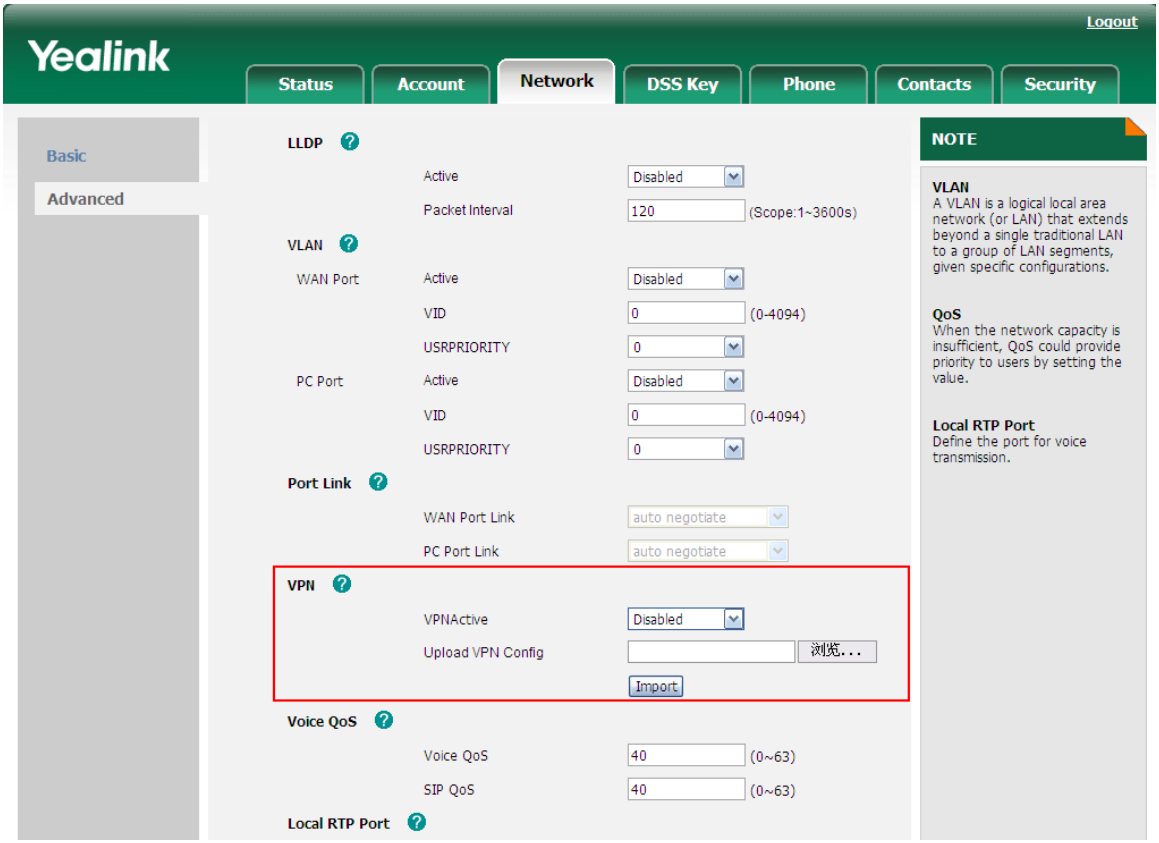
individual users with secure access to their organization's network. It aims to avoid an expensive system of owned or leased lines that can be used by only one organization.

It encapsulates data transfers using a secure cryptographic method between two or more networked devices which are not on the same private network so as to keep the transferred data private from other devices on one or more intervening local or wide area networks. There are many different classifications, implementations, and uses for VPNs.

If user want to enable VPN, user must import the VPN configure file via web interface at first.

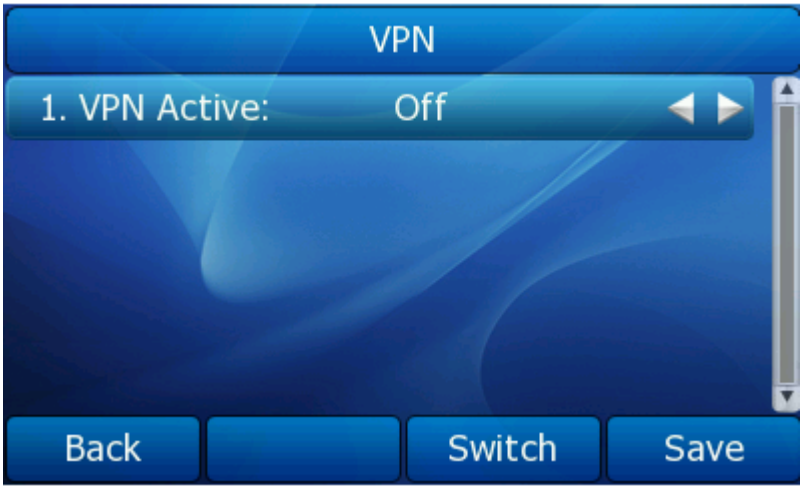
Configure VPN via web interface:

1) Choose Network->Advanced->VPN.
2) Choose enable/disable this function.
3) User also can upload the configure file via web interface.
4) Click the Confirm button to save the change.



Configure VPN via phone interface:

1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Network option, select VPN option.
3) Press the navigation key or Switch soft key to choose enable/disable VPN.
4) Press Save soft key to save the settings.



Phone Setting

Lock

You can lock the keypad of your phone when you don't use it temporarily. This function helps you to protect your phone from unauthorized use. You can lock the following specific keys:

Menu Key: The Menu soft key cannot be used until unlocked. You cannot access the menu of the phone.

Function Keys: The hard function keys cannot be used until unlocked. You cannot access the MESSAGE, TRAN, RD, History, Directory, DND, OK, X, navigation keys, etc.

All Keys: All of the keys cannot be used until unlocked. You can only use the phone to answer the incoming calls.

Lock&Answer: All the incoming calls will be put through automatically (Auto Answer), but cannot be hung up by your party.

To configure keypad lock via Phone interface:

1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Phone Setting option, and select Lock option.
3) Use the navigation key（or press the Switch soft key）to highlight the one you want to lock.

4) Press Save soft key to save the change.

5) The icon will be displayed on the top right corner of the idle screen.

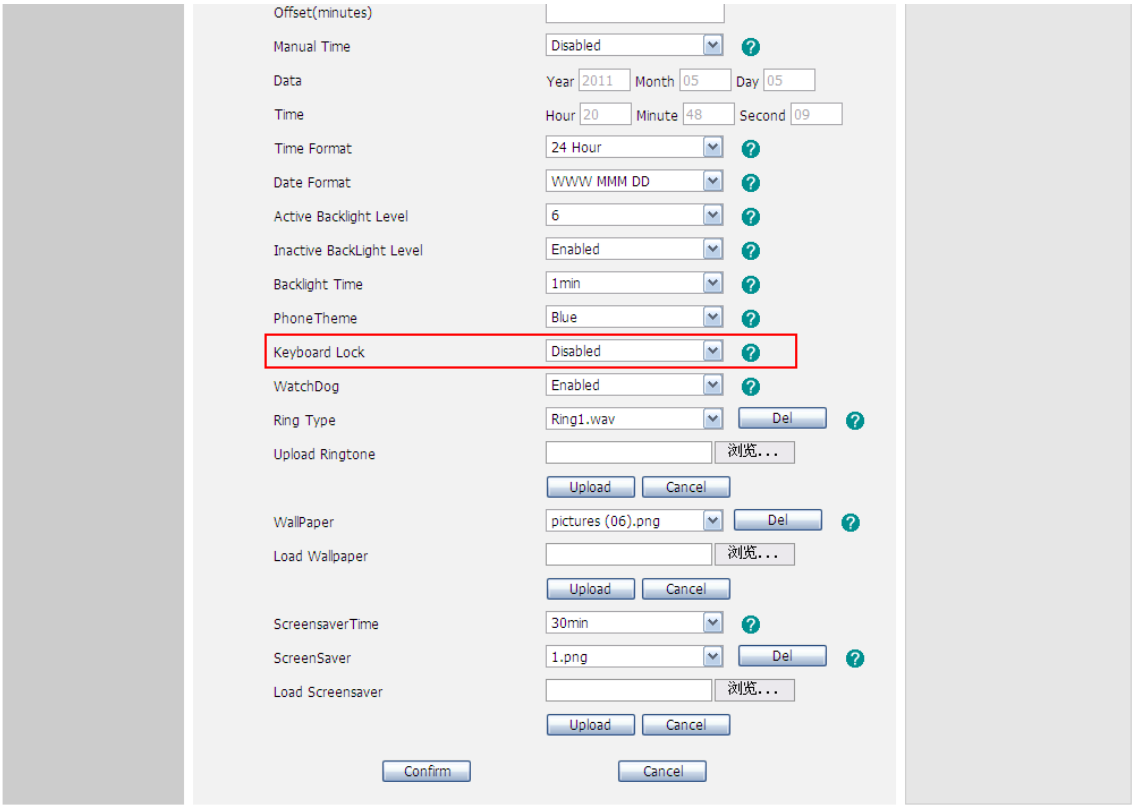
6) If you choose Lock&Answer, it will show the icon and on the user interface.

To unlock the phone via Phone interface:

1) Press Menu soft key, you are prompted for the password.
2) Enter the password, and then press Enter soft key, the phone will be unlocked.
3) The icon will be disappearing from the idle screen.
4) If you choose Lock&Answer, you have to enter Menu->Setting->Advanced Settings->Phone Setting->Lock.
5) And then choose disable this option.

To configure keypad lock via Web interface:

Choose Phone->Preference-> Keyboard Lock to do the relating changes. Please refer to the instruction above for the parameters' detail.



Note:
1. The default password for unlock is **admin**.

Reset to factory

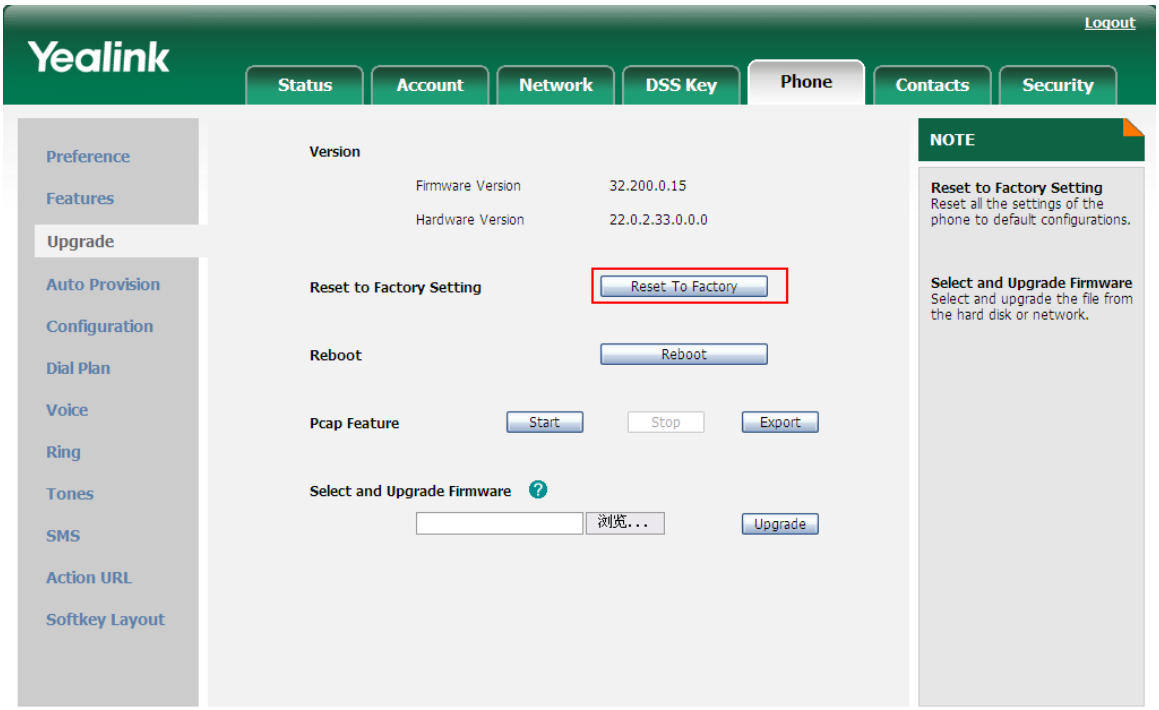
You should reset the phone only in this case: the phone configuration was changed and the phone is not functioning anymore. To maintain the configuration of the phone, you need your system administrator or service provider's advice.

To reset to factory via phone interface:

1) Press Menu->Setting->Advanced Settings.
2) You are prompted to enter the required password, scroll to Reset to factory, press Enter soft key.
3) You are prompted to confirm the change, press OK soft key to reset to factory settings, press Cancel soft key to return to previous menu.
4) It will take a few minutes to reset, please do not power off during resetting, or it will cause flash memory error.

To reset to factory via Web interface:

1) Choose Phone->Upgrade.
2) Click Reset To Factory button.
3) You are prompted to confirm the change, press OK to confirm the change, press Cancel to cancel the operation.



Note:
If you confirm to Reset to Factory, all the setting including contact list, call history, account setting, etc will be erased.
You have to export the configuration file first if you want to import the old configuration after Reset to Factory.

Set Password

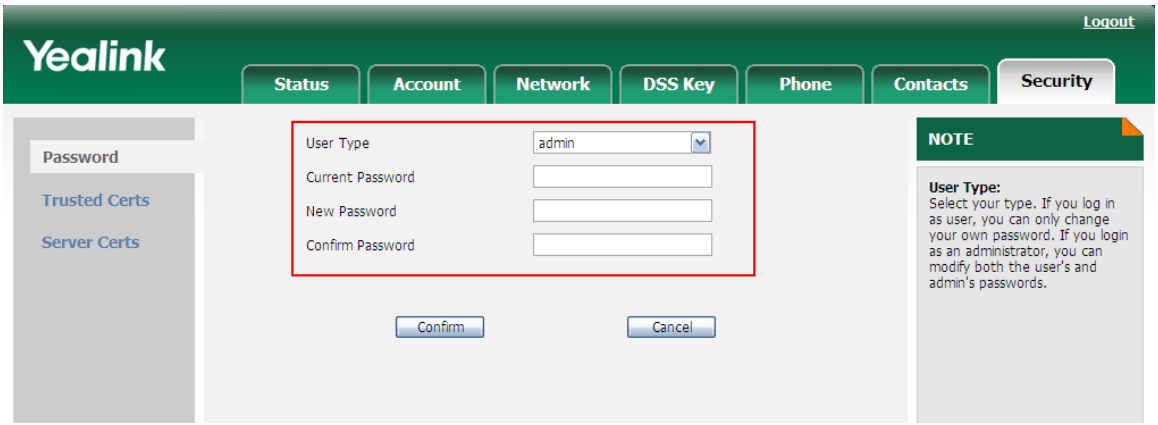
To change the administrator password via Phone interface:

1) Press Menu->Setting->Advanced Settings.
2) You are prompted to enter the required password, scroll to Set Password, press Enter soft key.
3) You are prompted to enter the Current, New and Confirm password, press abc soft key to change the input method.

4) Press Save soft key to confirm the change.

To change the administrator password via Web interface:

1) Choose Security->Password->admin, enter the Current, New and Confirm password.
2) Click Confirm button to save the change, or Cancel button to cancel the change.



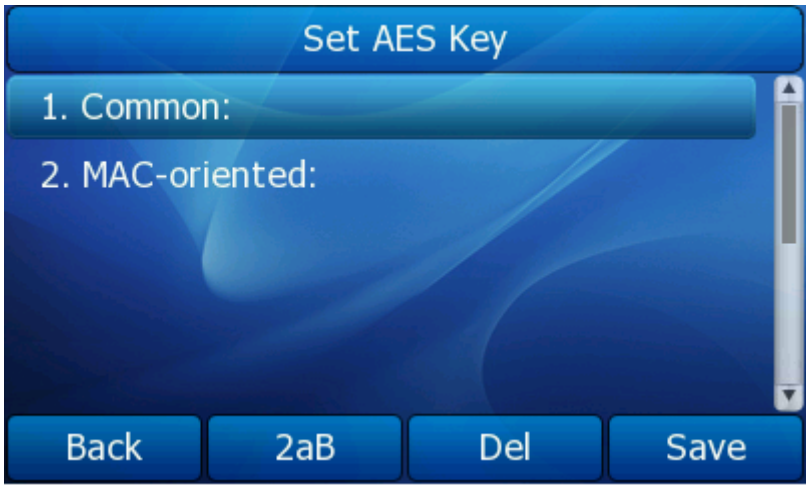
Set AES Key

If the downloaded configuration files have been AES encrypted, the AES Keys will be needed. The **Common AES Key** is for decrypting the Common CFG file. The **MAC-Oriented AES Key** is for decrypting the MAC-Oriented CFG file. The keys must be 16 bytes and the supported characters are: 0 ~ 9, A ~ Z, a ~ z and the following special characters: # $ % * +, - . : = ? @ [ ] ^ _ { } ~

Configure AES key via phone interface:

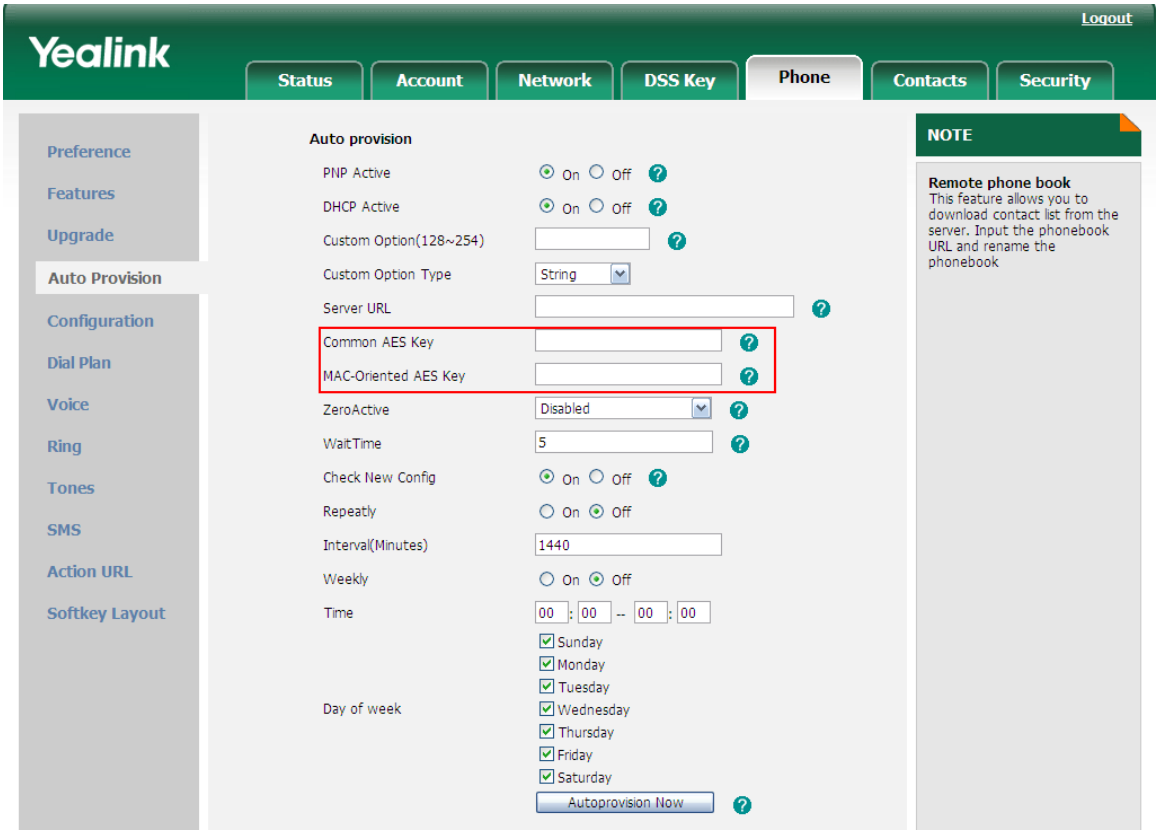
1) Press Menu->Setting->Advanced Settings.

2) Enter the password required, scroll to Set AES Key option.
3) Input Common and MAC-oriented in the corresponding field.
4) Press Save soft key to save the change.



Configure AES key via web interface:

1) Choose Phone->Auto Provision-> Common AES Key/ MAC-Oriented AES Key
2) Enter the corresponding contents.
3) Click Confirm button to save the change.



Auto Provision

Configure Auto Provision via Web interface:

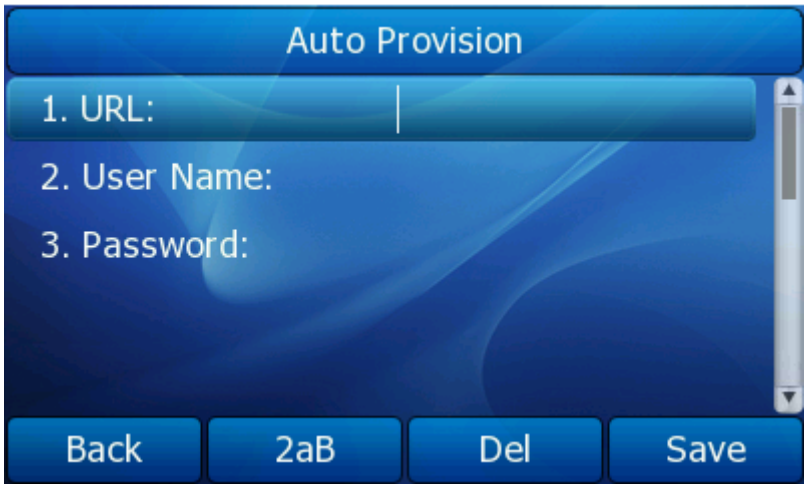
1) Choose Upgrade-> Auto Provision, configure the relating settings: Custom Option,

Custom Option Type, URL, Account, Password, Common AES Key and MAC-Oriented AES Key, PNP config and Check New Config.

2) Click Confirm button, the phone will check the server for a new firmware in a specific time, and it will update automatically if there is new firmware.
3) You can also update the firmware immediately by pressing Auto-provision button.

Set Auto Provision via phone interface:

1) Press Menu->Setting->Advanced Settings.
2) Enter the password required, scroll to Auto Provision option.
3) Enter the URL, User Name and Password.
4) Click the Save soft key to save the change.



For more information about the parameters of the Auto Provision, you can consult your system administrator.

Warning:

Please do not power off or unplug the Ethernet cable during the updating.
Any power interruption during the following process will most likely lead to a flash memory error. As a result the system cannot boot up anymore.

Display

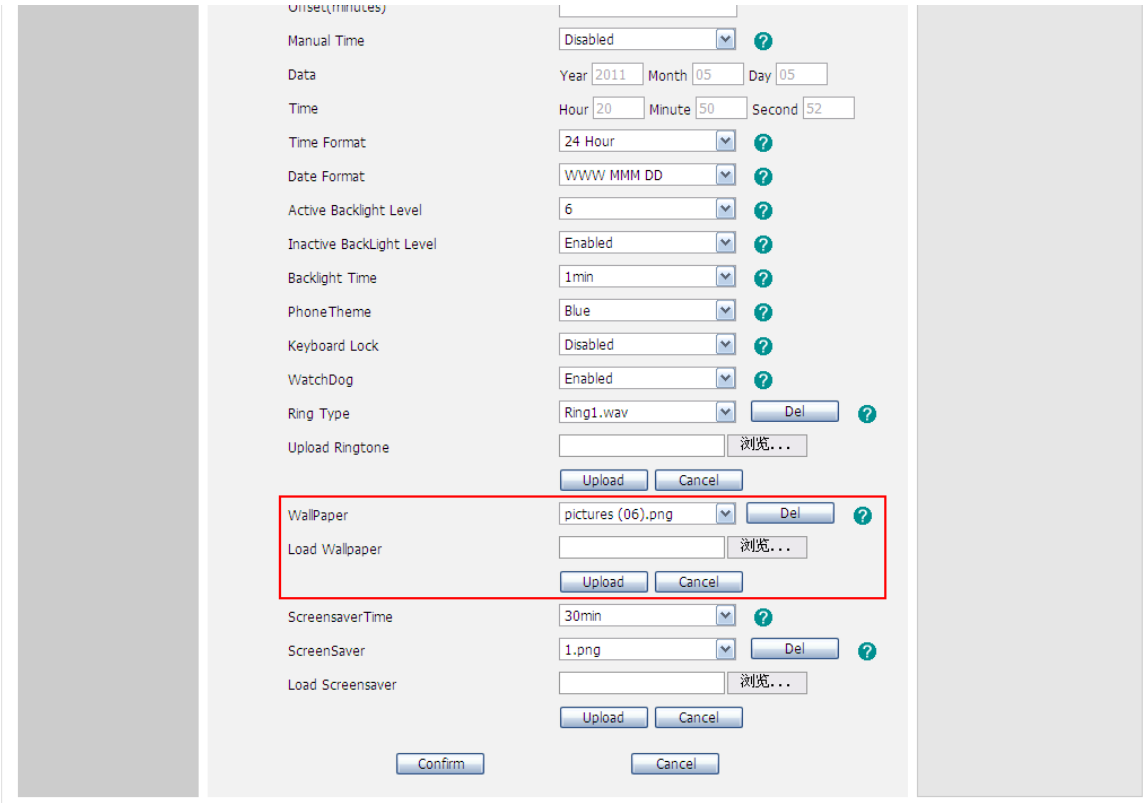
WallPaper

Users can change the background picture.
To change the background picture via phone interface:

1) Press Menu->Display->WallPaper to enter the edit page.
2) Press Switch soft key to switch the background picture.
3) Press Save soft key to save the change.

Configure WallPaper via Web interface:

1) Choose Phone->Preference.
2) Choose WallPaper.
3) Click Confirm button to save the change.

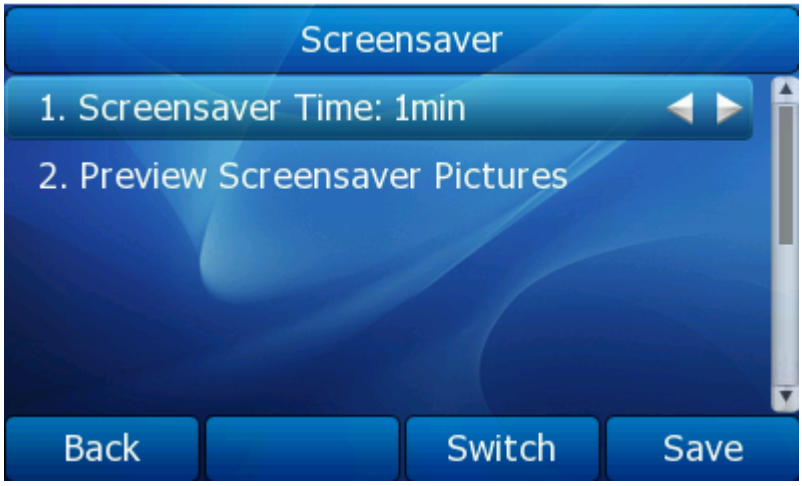


Screensaver

Configure Screen Saver via phone interface:

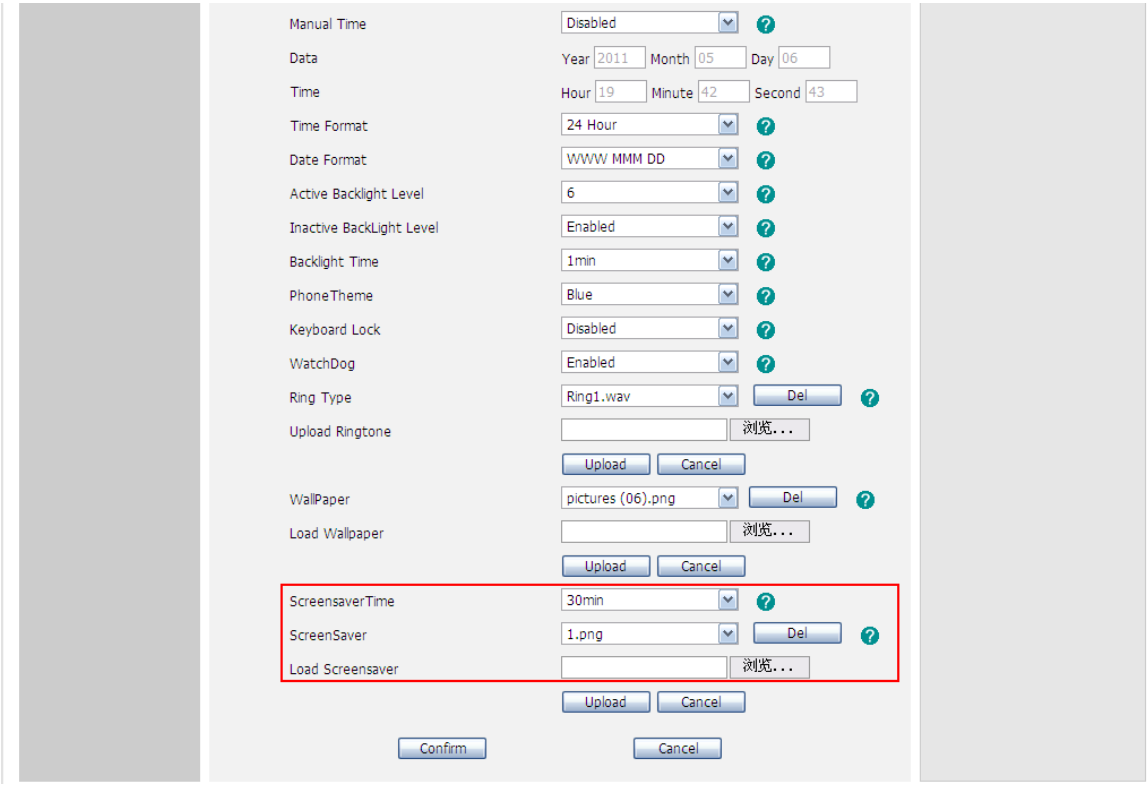
1) Press Menu->Display->Screensaver to enter the edit page.
2) Press Switch soft key to Choose Screensaver Time.
3) Press Save soft key to save the change.

4) Also can choose Preview Screensaver Pictures option, and press Enter soft key to enter the preview page.
5) Press Switch soft key to switch the photo to preview.



To configure Screen Saver via Web interface:

1) Choose Phone->Preference.
2) Configure Screensaver Time and Screensaver in the corresponding field.
3) Click Confirm button to save the change.



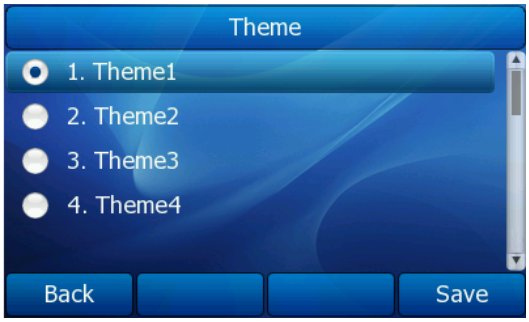
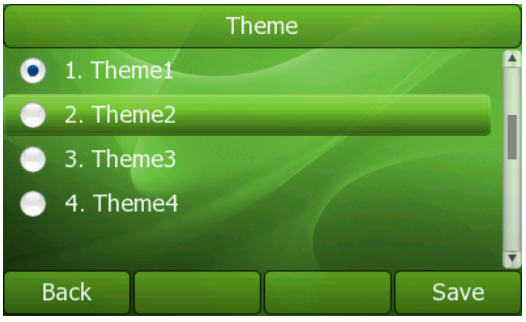
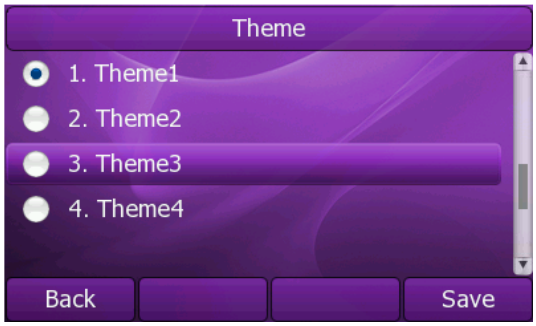
User also can upload the Screensaver file via web interface:

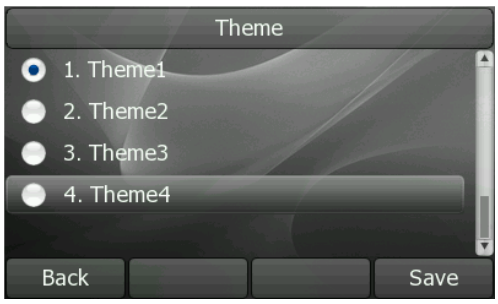
1) Choose Phone->Preference.
2) Choose Load Screensaver option, click browser button to choose the corresponding file.
3) Press Upload button to complete the operation.
4) Click the Del button to delete the file.

Note:
1. Only png, jpg and bmp format pictures can be supported.
2. If the upload pictures less than 480 x 272 pixels, it will display in the middle of the LCD, if the pictures more than 480 x 272 pixels, the pictures will be in proportion to dwindle and household display.
3. The phone supports the upload picture less than 5M, 5 million pixels.
4. Only uploaded picture can be deleted.

Theme

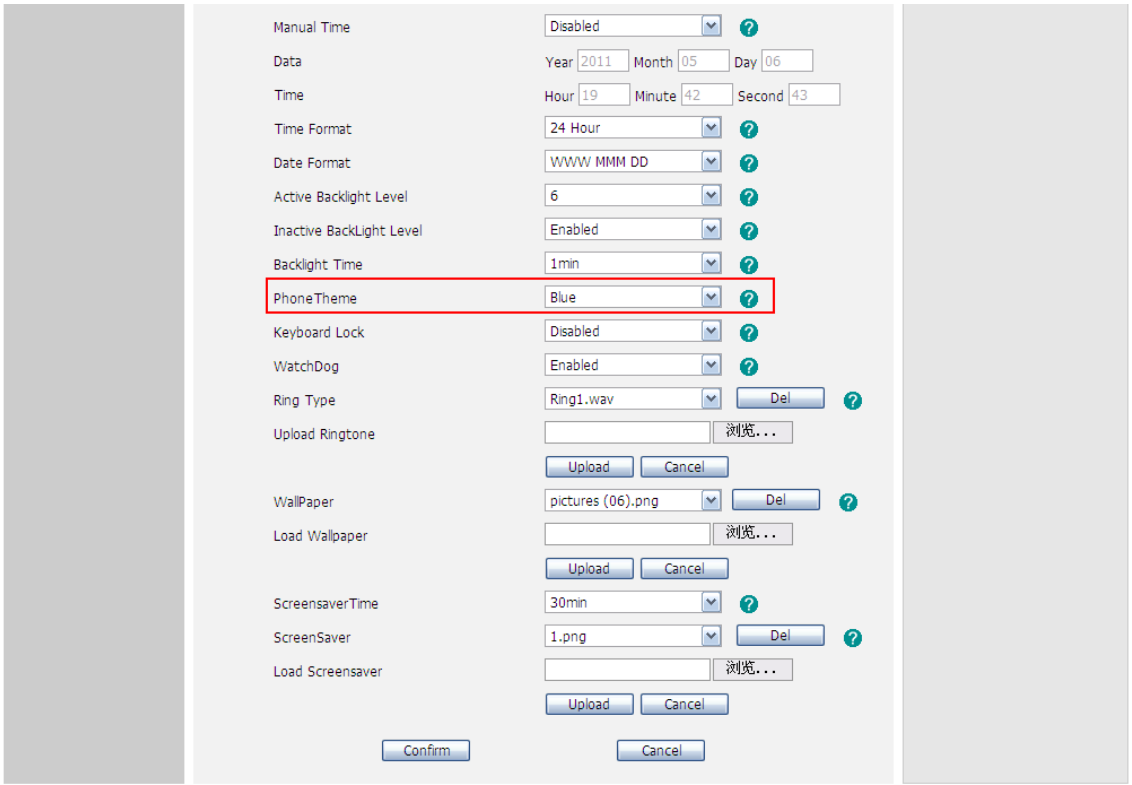
To change the Theme via phone interface:
1) Press Menu->Display->Theme to enter the edit page.
2) Use navigation key to highlight an option.
3) Press the Save soft key to save the change.

Theme 1	
Theme 2	
Theme 3	

Theme 4	

To change the Theme via web interface:

1) Choose Phone->Preference->Phone Theme.
2) Choose a theme in the drop-down menu.
3) Click Confirm button to save the change.



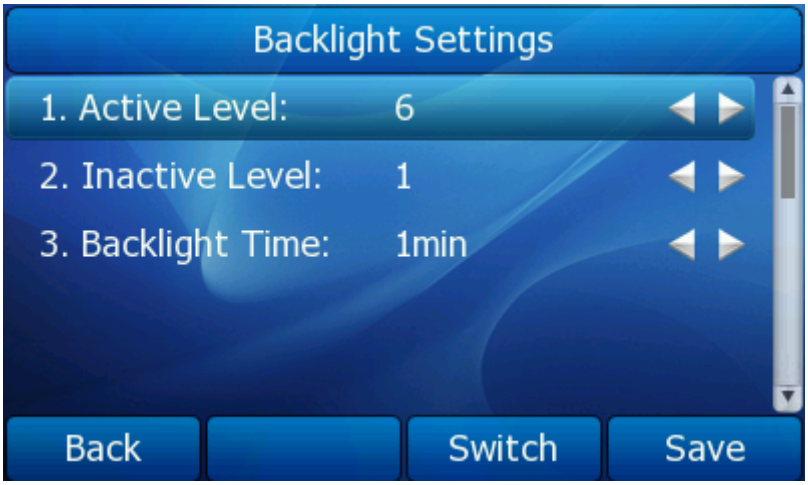
Backlight

User can set the backlight through this option.

Field	Description
Active Level	The backlight level when the phone is active.
Inactive Level	The backlight level when the phone is inactive. "0" is stand for black, "1" is stand for gray.
Backlight Time	If the user doesn't do any operations in "backlight" time, the phone will automatically turn into an energy saving mode.

Configure these options via phone interface:

1) Press Menu->Display->Backlight to enter the configure page.
2) Use navigation key to highlight an option.
3) Press Switch soft key to configure.
4) Press Save soft key to save the change.



Applications

Digital Photo Frame

To preview the screen savers effect via phone interface:

1) Press Menu->App->Digital Photo Frame.
2) Use navigation key to choose the photo, if you have enough permissions, you can press the Remove soft key to delete this photo.
3) User also can press the Play soft key to use the Digital Photo Frame function.
4) Press any key to exit.

Note:
Use the digital photo frame, the phone equivalent to enter screensavers status. User

can press any key to exit the screensavers status.

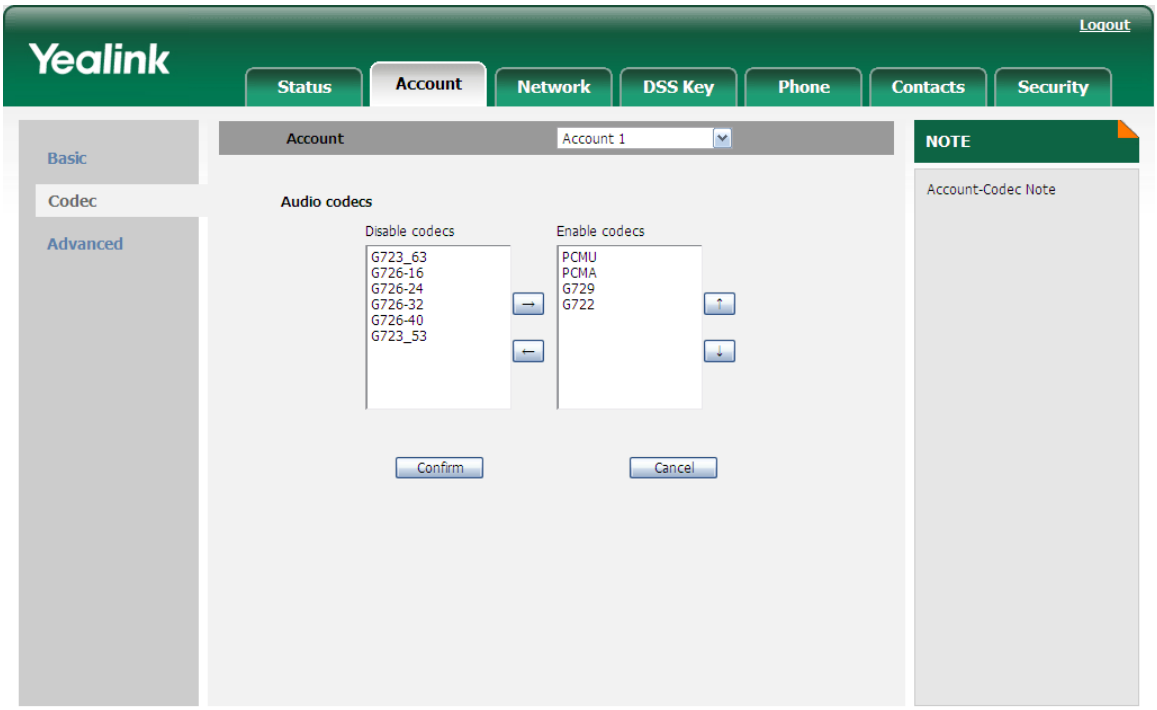
Other Settings

Codec Selection

The IP phone supports the following voice codecs:
G723_63, G722, G726-16, G726-24, G726-32, G726-40, PCMA, G729, PCMU, and G723_53.
You can enable/disable the desired codecs via Web interface. Please contact your System Administrator for more details about the codecs.

To enable/disable the codecs:

1) Choose Account->Codec.
2) Choose an account.
3) Use the navigation key to highlight the desired one in the Enabled/Disable Codecs list, press the → / ← to move to the other list. And press the ↑ / ↓ to change priority
4) Click Confirm to save the change.



Note:
Codec selection can only be set via Web interface.

Auto Answer

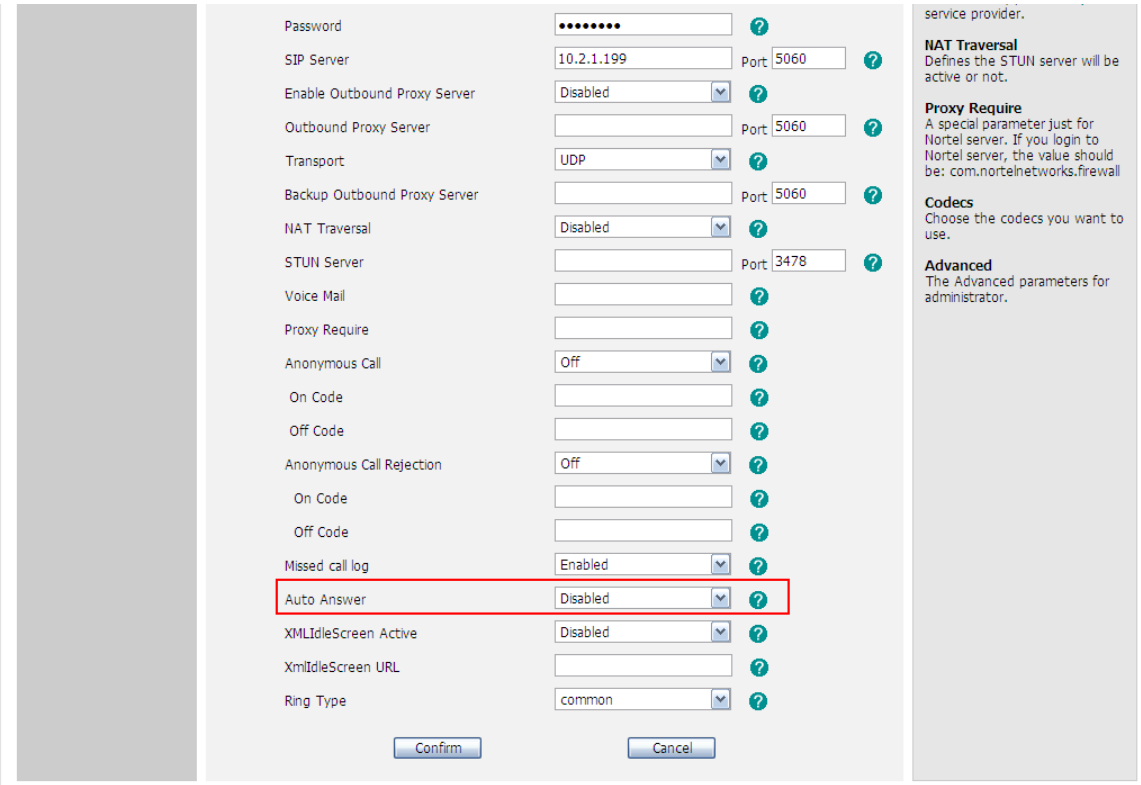
Auto-answer allows an incoming call to be answered without requiring any action by the user. This is a useful feature for people who have difficulty in using their hands or fingers, or who have a visual impairment, or who have a cognitive impairment. You can set this function according to special account.

To set Auto Answer via the IP phone interface:

1) Press Menu->Setting->Advanced Settings, enter the password and press enter soft key.
2) Then choose Accounts, highlight a line, press Enter soft key, use the navigation key to choose Auto Answer option.
3) Press the Switch soft key to enable or disable the auto answer function. The default is Disabled.
4) Press the Save soft key to save the change.

To set Auto Answer via Web interface:

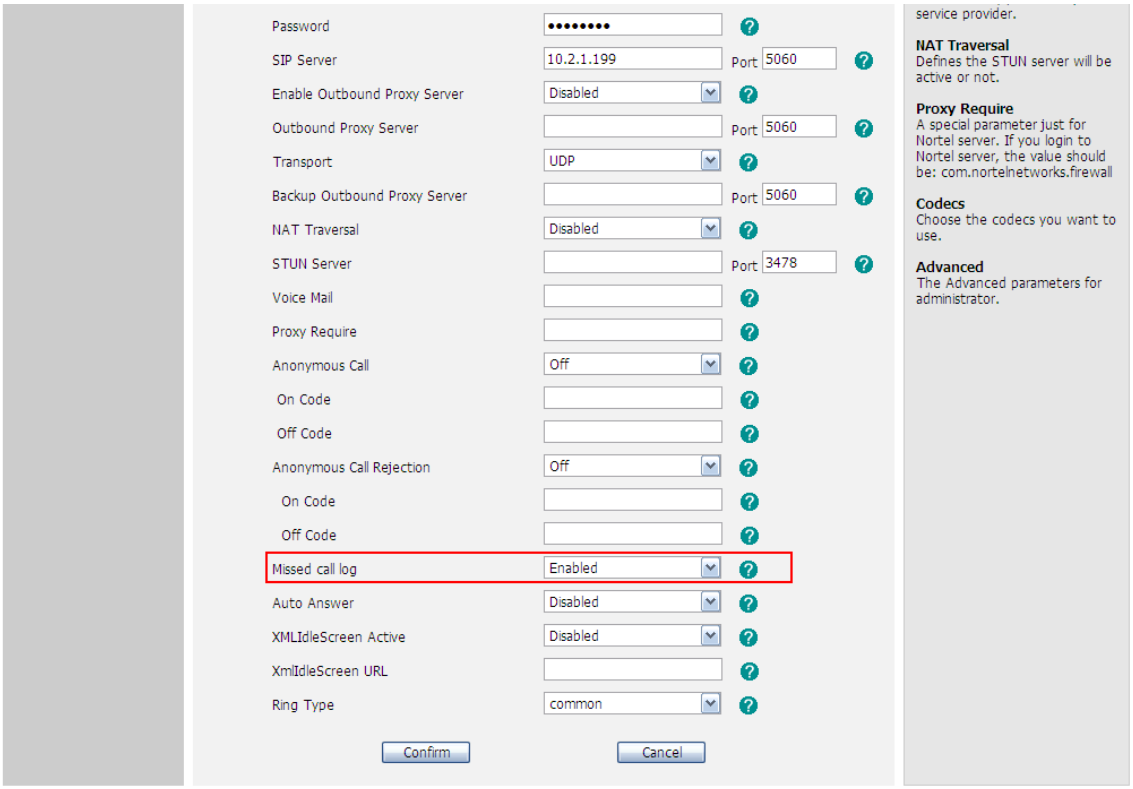
1) Choose Account-> Basic-> Auto Answer.
2) Choose Enabled or Disabled in the pull-down menu, click Confirm button to save the change.



Missed call log

Define whether to save the missed calls to the call history record. This function can only be set via the Web interface:

1) Choose Account-> Basic->Missed call log.
2) Choose Enabled or Disabled in the pull-down menu, click Confirm button to save the change.

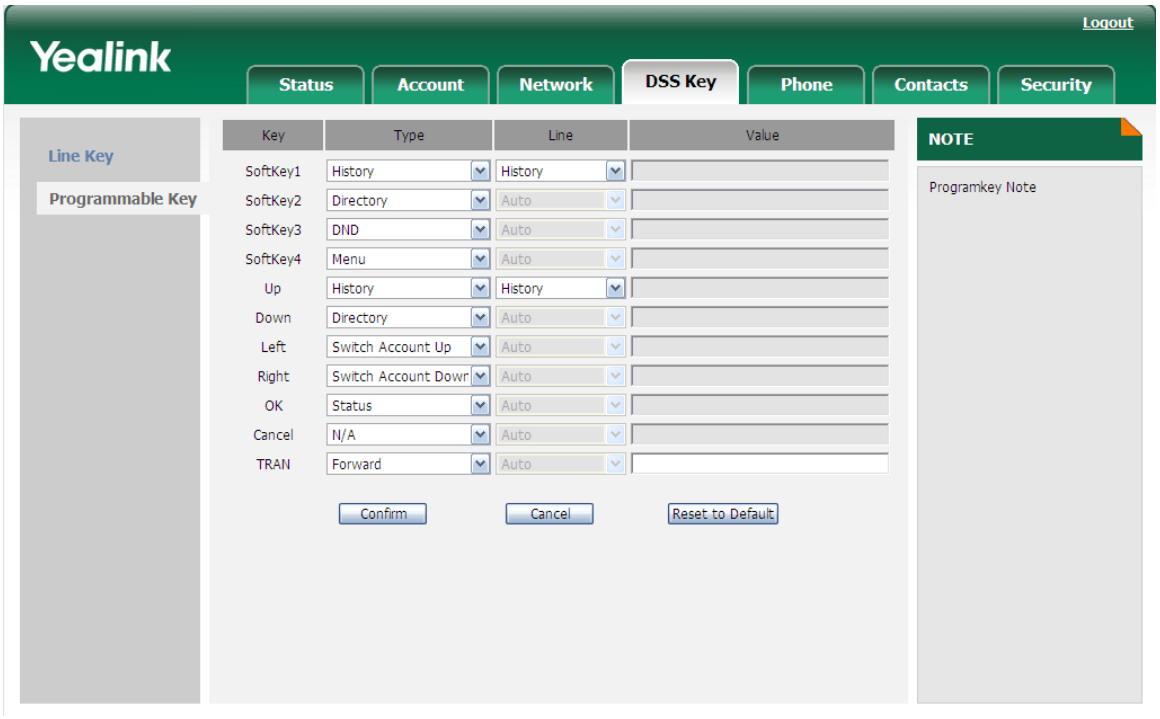


Programmable Key

The soft keys, navigation key and function keys on the keypad are editable. Users can customize specific features for these keys according to their actual needs.

This function can only be set via the Web interface:

1) Choose DSS Key->Programmable Key.



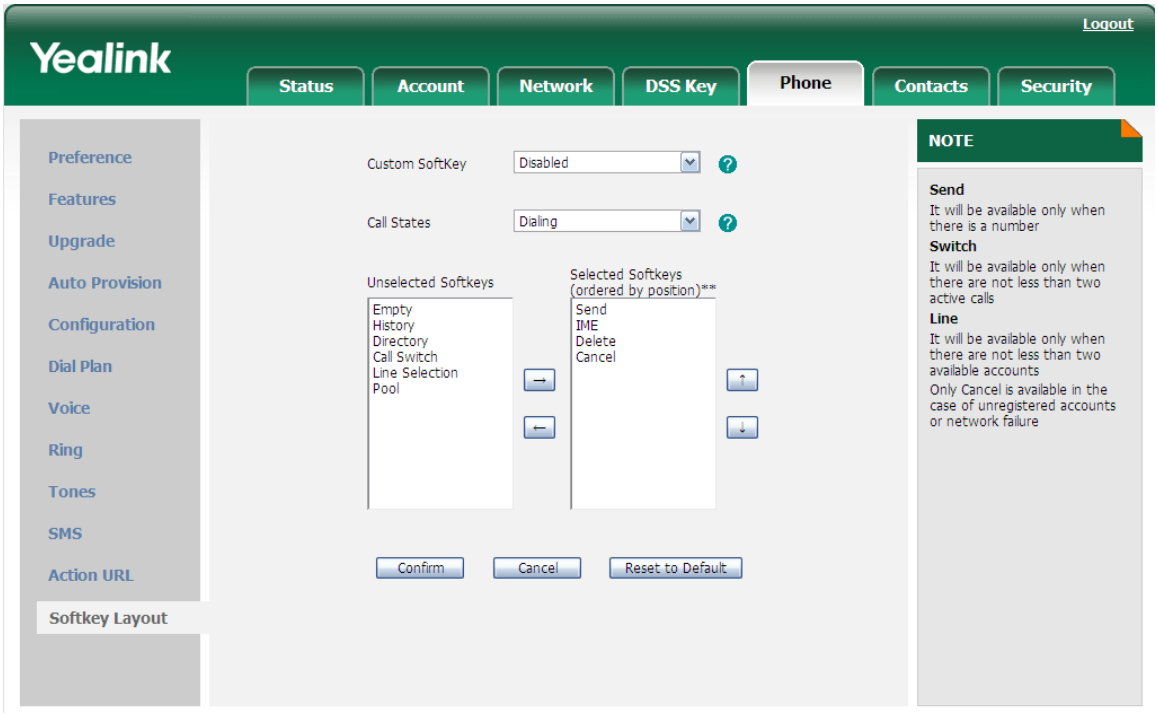
2) Choose and customize specific features for these keys.
3) Click Confirm button to save the change.

Softkey Layout

The phone allows you to set different softkey layout on 12 call interface, user can setup different softkey layout according to his/her own requirement or habit.

To set up softkey via web interface:

1) Choose Phone->Softkey Layout.
2) In the "Custom Softkey" field, chose Enable in the pull-down menu.
3) You can choose the corresponding call states which you want to set up the softkey in the Call States field.
4) Highlight the desired one in the Unselected Softkeys/Selected Softkeys list, and press the → / ← to move to the other list.
5) And you can use ↑ / ↓ to arrange the order of displaying in the call states.
6) Click Confirm to save the change.
7) You can also click the Reset to Default button to reset the softkeys layout.



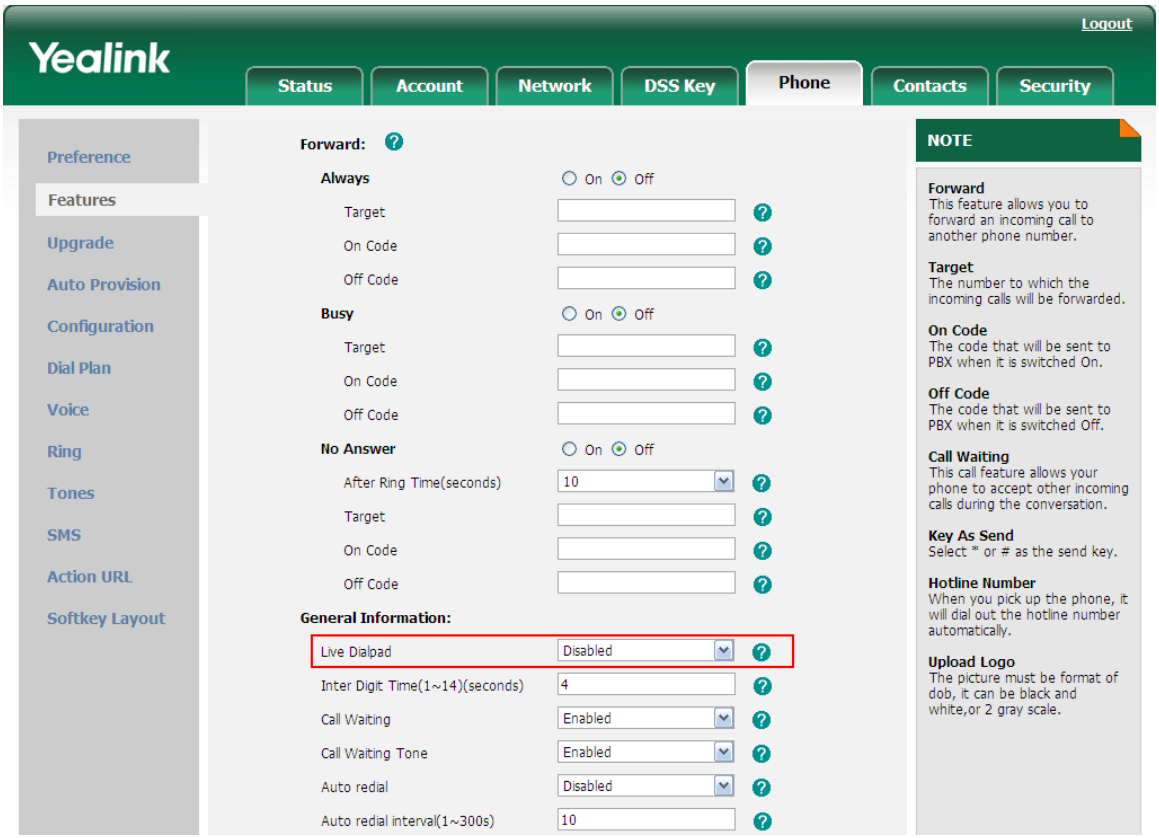
Note:
We can add the Empty key more than once, but the others can only be chosen once. If you have set up more than 4 soft key options, the fourth softkey option that shows on the LCD will automatically turn to be "More". Press "More" it will switch to the next page on which it will show the other softkey options.

Live Dialpad

Live Dialpad defines whether to dial the dialed number automatically.

This function can only be set via the Web interface:

1) Choose Phone->Feature->Live Dialpad.
2) Enable or disable it in the pull-down menu.
3) Set the time in the Inter Digit Time field.
4) Click Confirm button to save the change.



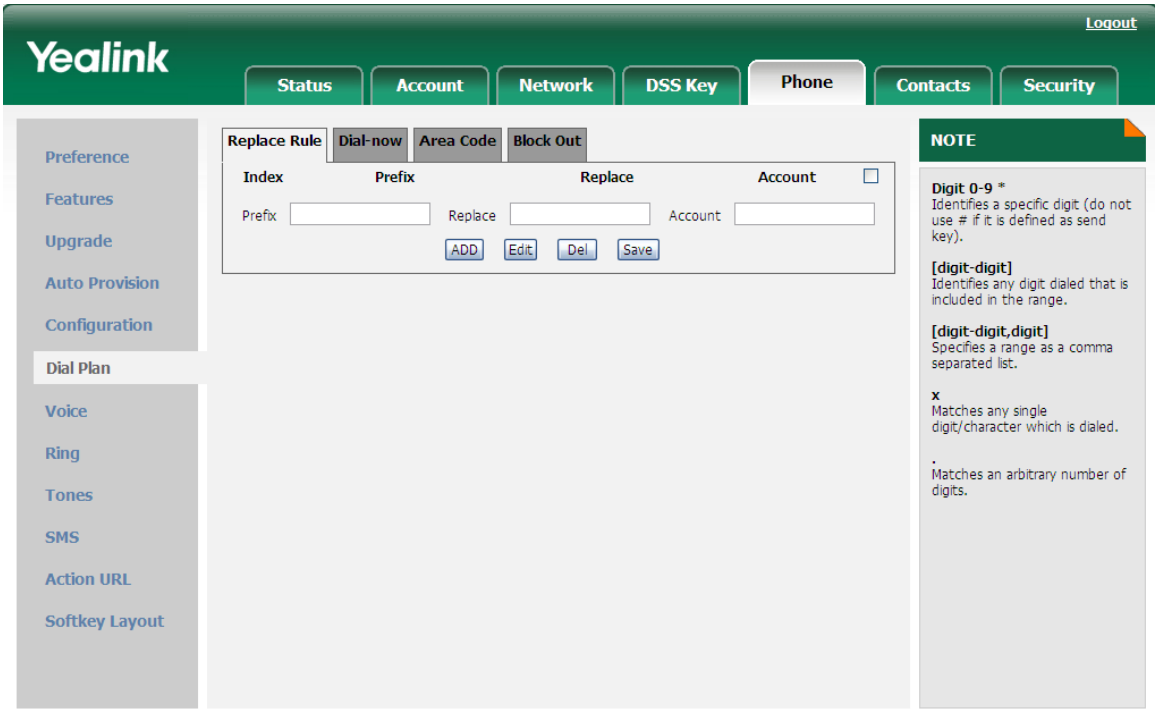
Dial Plan

Replace Rule

A dial plan establishes the expected number. This includes country codes, access codes, area codes and all combinations of digits dialed. For example if you set the *Prefix* as 0 and *Replace* as 0086, when you dial 0 out, the number will be replaced by 0086 automatically.

To set a Replace Rule via the Web interface:

1) Choose Phone->Dial Plan->Replace Rule.
2) Enter the desired *Prefix*, *Replace* and *Account.*
3) Press Add button to save the change.
4) You can also delete a specific one from the dial plan list.
5) You can select a record to modify, then click Edit button to submit.

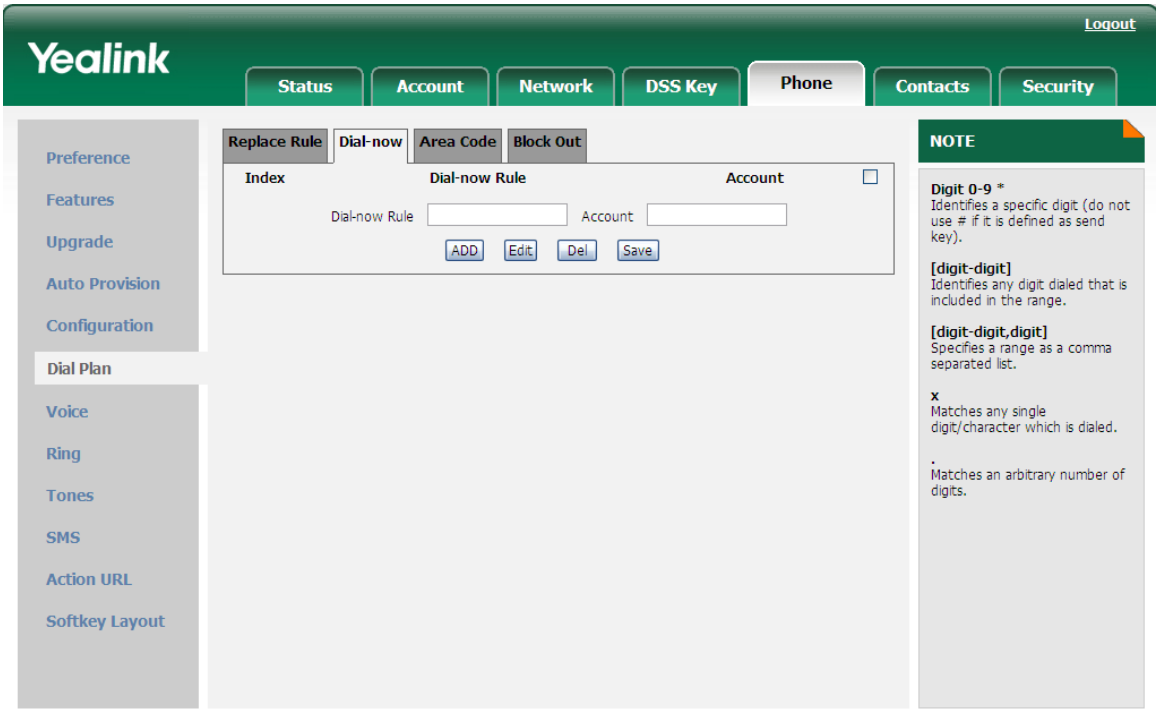


Dial Now

Dial-now enables you to define the specific length of any number/letter in advance(for example xxx), next time when users dial the 123 whose length matches the Dial-now rule, the phone will dial 123 in one second without pressing Send button.

To set a Dial Plan via the Web interface:

1) Choose Phone->Dial Plan->Dial now.
2) Enter the number in Dial-now Rule and Account.
3) Press Add button to save the change.
4) You can select a record to modify, then click Edit button to save.
5) You can also delete a specific one from the dial plan list by pressing Del button.
6) You can also set the Time Out for Dial-now Rule via web interface. Choose Phone->Features->Time Out for Dial-now Rule, enter the time.



Note:

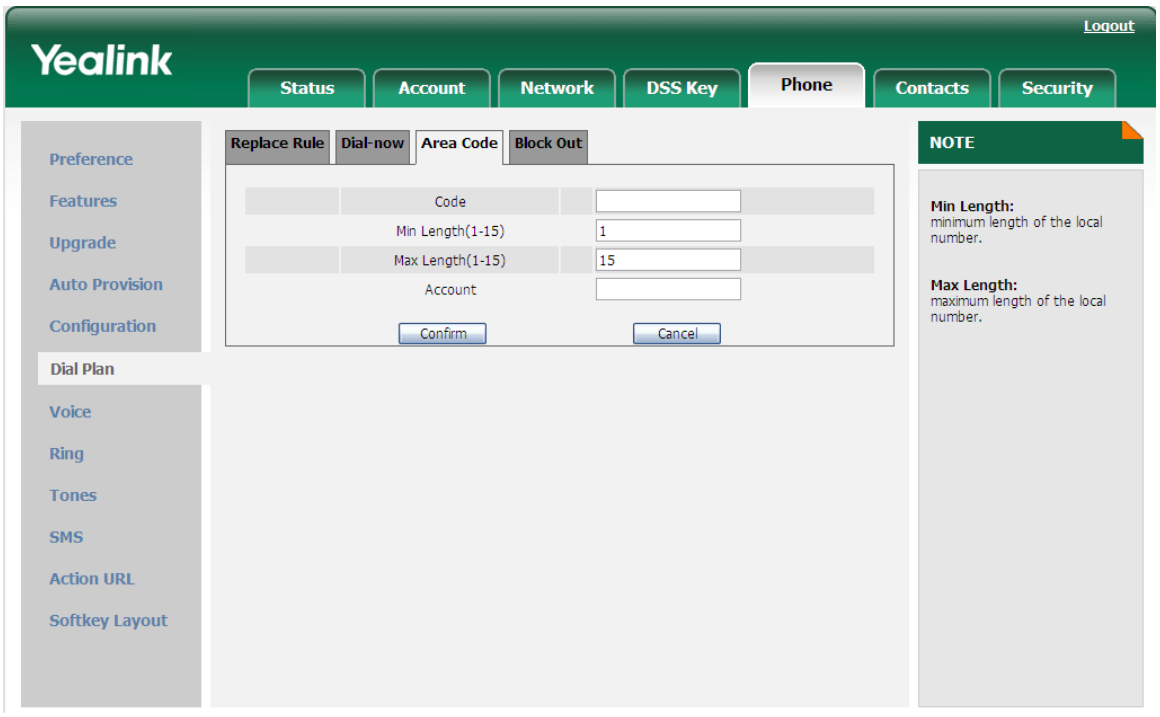
1. If you need to replace the unknown contents, you can use (.) or (x), "." to represent a string of char, "x" can represent any one char. The content in () represents a variable, the first variable is expressed by $ 1, the second variable is expressed by $ 2, the rest can be done in the same manner. For example: if you want to replace the any input content with the content beginning with 8. Input (.) in Prefix box, and input 8$1 in Replace box.

Area Code

Area codes are also known as Numbering Plan Areas (NPAs). These are necessary (for the most part) only when dialed from outside the code area and from mobile phones. Area codes usually indicate geographical areas within one country, although the correlation to geographical area is becoming obsolete. For non-geographical numbers, as well as mobile telephones outside of the United States and Canada, the "area code" does not correlate to a particular geographic area.

To add the area code via the Web interface:

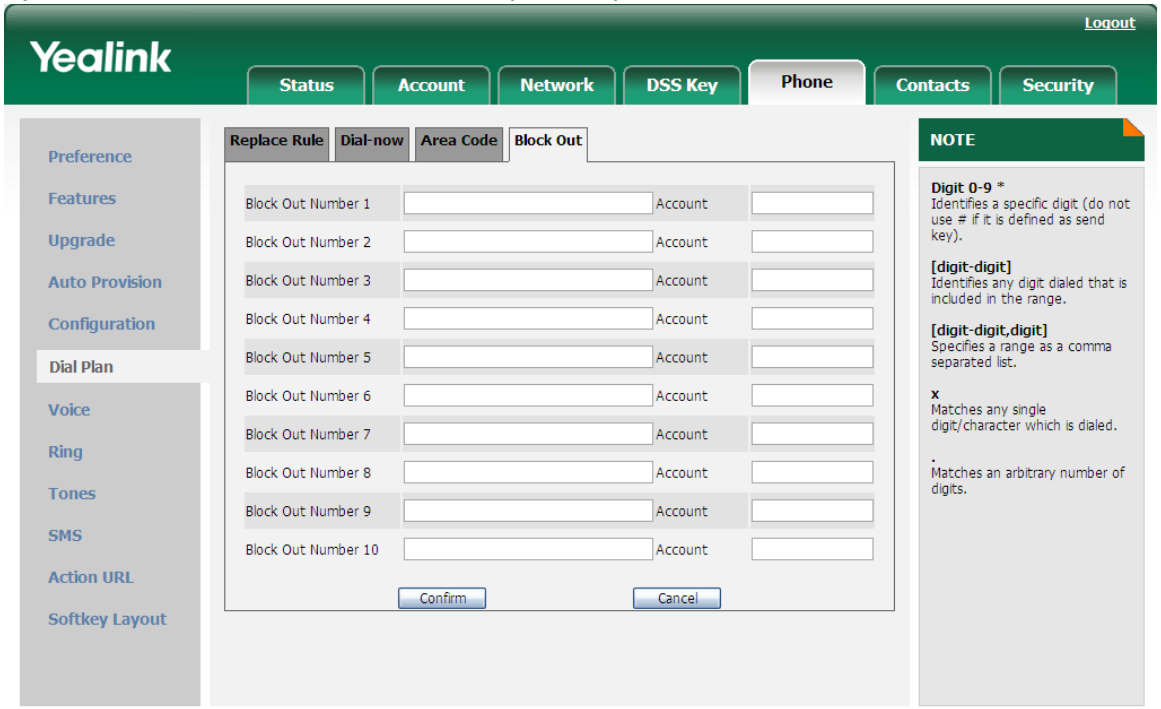
1) Choose Phone->Dial Plan->Area Code.
2) Enter the Code and Account, set the Min Length and the Max Length option, and then click the Confirm button to save.



Block Out

The specific phone numbers can be forbidden to be call out from your IP phone.

1) Choose Phone->Dial Plan->Block Out.
2) Enter Block Out Number and Account, click Add button to save the change, or choose the specific one in the list, click Delete button to delete the record.
3) You can select a record to modify, then click Edit button to submit.
4) You cannot dial the number from your IP phone unless it is removed from this list.



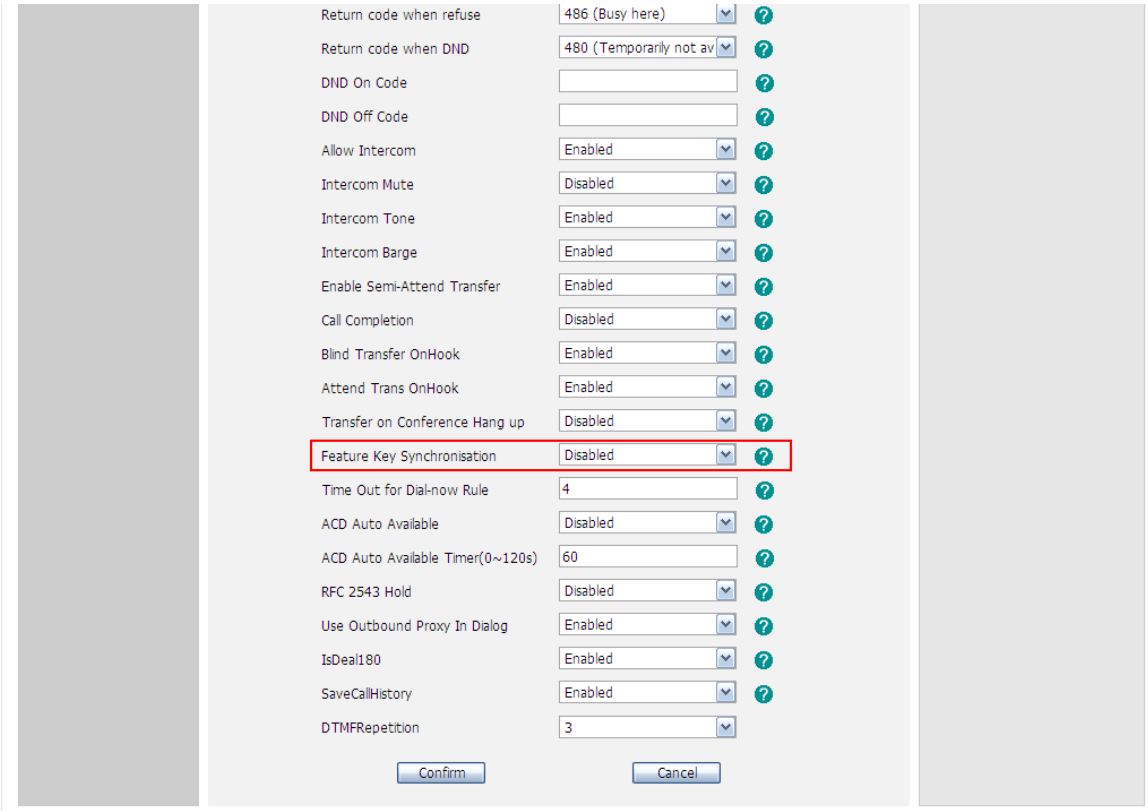
Note:
The numbers set in Emergency cannot use the dial plan rule.

Note:
1. In the Account field, you can enter 1,2,3, "1" represents Account 1, "2" represents Account 2 ……, if the account box is empty, it mean this rule works for all accounts .

Feature Synchronization

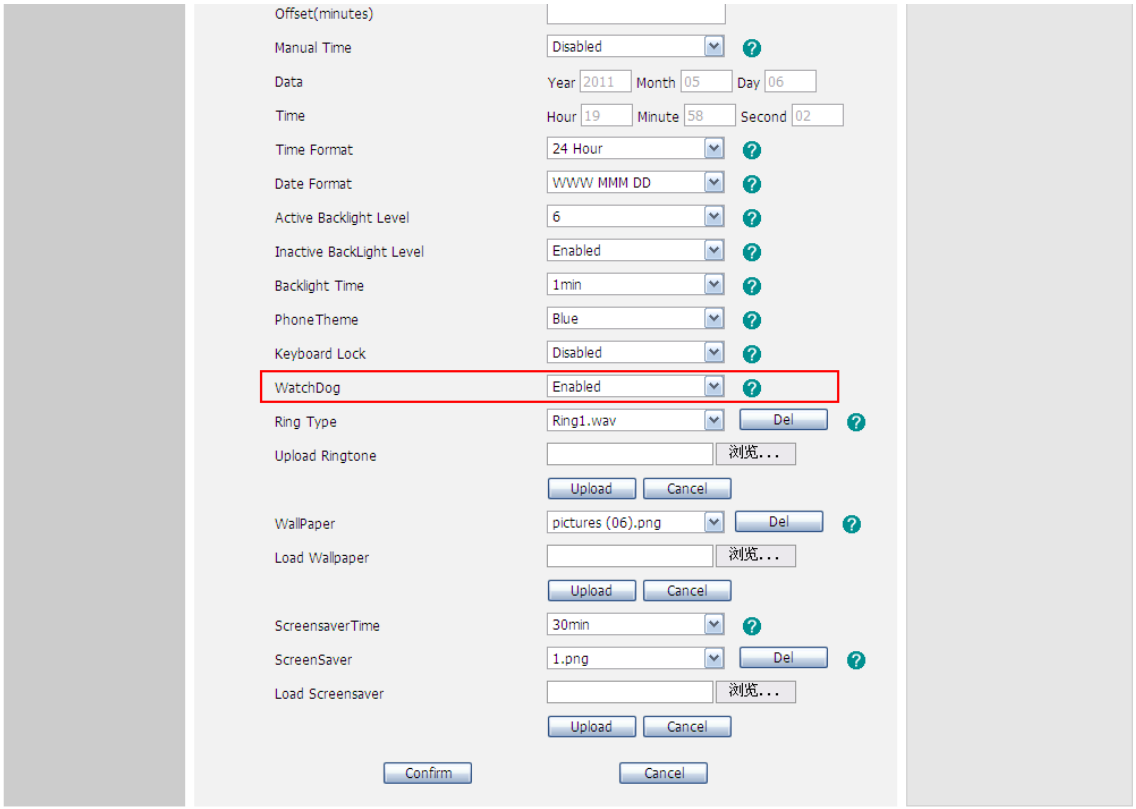
When enabled the synchronize function, when you configure the DND/FWD function on device or server, DND/FWD status on device and server will be in correspondence.

To set Feature Key Synchronization via the Web interface:
1） Choose Phone->Features-> Feature Key Synchronization.
2） Choose whether to enable this function from the pull-down menu.
3） Click the Confirm to save the change.



WatchDog

When 'WatchDog' function is 'Enabled', phone will auto reboot after 10 seconds if some important process of phone crash. When 'Disable' the function, the phone will not reboot.
Configure watchdog via web interface:
Choose phone-> Preference->WatchDog, in the pull-down menu, choose enable or disable this function.



Action URL/URI

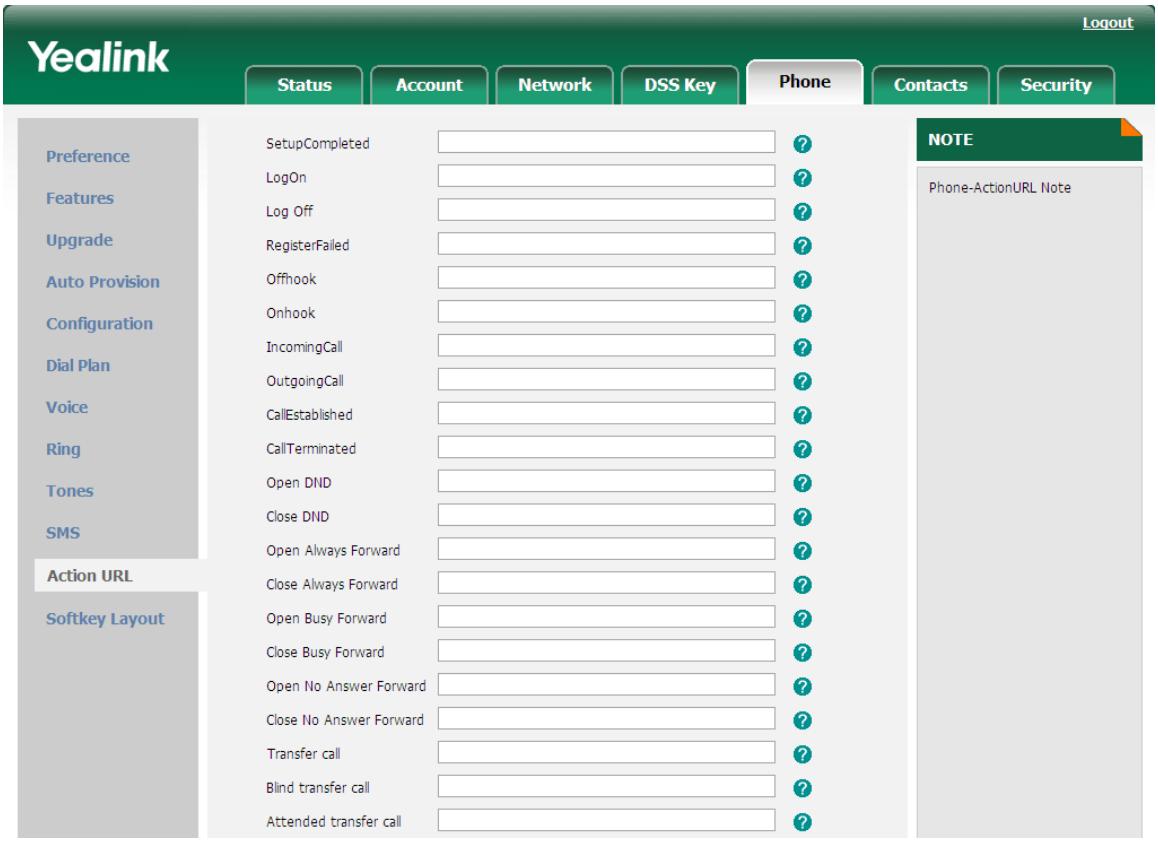
Action URL: Record the operation of phone, send this corresponding information to server; action URI: Remote control phone for corresponding operation.

Action URL:

The operations can be recorded include: Setup Completed, Log On, Log Off, Register Failed, Off hook, On hook…etc.

Set Action URL via web interface:

1) Choose Phone->Action URL
2) Enter the Corresponding contents.
3) Click Confirm to save the change.



The format of http URL is like this: http://internal.server.net/help.xml?

This URL can be user defined. Replace internal.server.net by the server IP address.

The variable URL supported:

$mac	#MAC address
$ip	#IP address
$model	# Model of the phone
$firmware	# Firmware of the phone
$active_url	#SIP URI of current active account(when Imcoming call, Outgoing call, Call established)
$active_user	#User account part of SIP URI from current active account(when Imcoming call, Outgoing call, Call established)
$active_host	#Server part of SIP URI from current active account(when Imcoming call, Outgoing call, Call established)
$local	#SIP URI of Callee(when Imcoming call, Outgoing call)
$remote	#SIP URI of Caller(when Imcoming call)
$display_local	#Display name of Caller(when Imcoming call, Outgoing call)
$display_remote	#Display name of Caller(when Imcoming call)
$call_id	#call_id (when Imcoming call, Outgoing call, Call established)

Active URI:

Enter the "*http://Phone IP/cgi-bin/cgiServer.exx?key=xxx*" in Browser address bar, the phone will realizing the corresponding function. If you not login the web with the user name and password, you will need to specify the user/password to confirm the operation. The username/password can be added into the URI like:

http://admin:admin@10.2.3.25/cgi-bin/cgiServer.exx?key=OK

Our phone can support the following functions function:
Key=xxx stand for the following rules:

To answer the call: key=OK/key=ENTER
To turn on speaker mode: key=SPEAKER
Press transfer button: key=F_TRANSFER
Increasing the volume: key=VOLUME_UP
Reduce the volume: key=VOLUME_DOWN
To mute the call: key=X
To hold the call: key=F_HOLD
To enter the DTMF number(include Numeric , * or # keys): key=0-9/*/POUND
Press a line key: key=L1-L3
Press Conference button: key=F_CONFERENCE
Press a soft key: key=F1-F4
Press Message button: key=MSG
Press Headset button: key=HEADSET
Press RD button: key=RD
Press navigation key: key=UP/ DOWN/ LEFT/ RIGHT
To reboot the phone: key=Reboot
To check the Auto provision: key=AutoP
To enable DND: key=DNDOn
To disable DND: key=DNDOff

Dial out:
http://*Phone IP*/cgi-bin/*cgiServer.exx?*number=*NUMBER*&outgoing_uri=*URI*
Phone IP stand for the phone's IP address. NUMBER stand for the number which you want to send. URI stand for the account.
For example:
http://10.2.3.25/cgi-bin/*cgiServer.exx?*number=0599123456&outgoing_uri=216@192.168.1.199

Notes:
1. The URI is case sensitive.
2. If you test it via web browser, you will need to specify the user/password to confirm the operation for the first time. The username/password can be added into the URI like: http://admin:admin@10.1.4.148/cgi-bin/ConfigManApp.com?key=2.
3. If there is no account as specified, the phone will dial with the default extension number. If there is no any account, the phone will dial as IP dialing.

XML-IdleScreen

The phone allows users to specify distinct idle screen for each line. The phone will

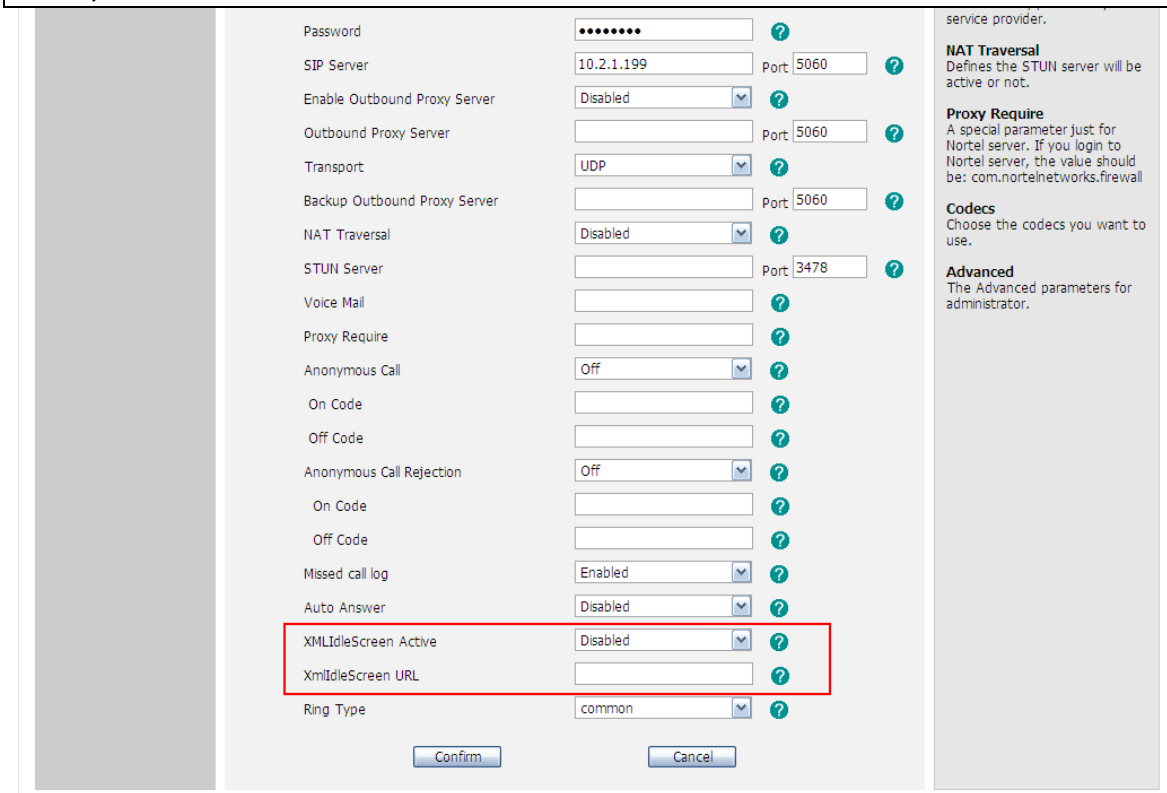
always display the idle screen of the currently active line. The idle screen is using XML format. The idle screen can have different background images as well.
There are six elements（Background picture, Clock, Data, State, Soft key）you can custom the idle screen by yourself.

Configure XML-IdleScreen via web interface:

1) Choose Account->Basic->XMLIdleScreen Active, choose Enable or Disable this function.
2) If you want to use this function, and then you must input the URL in the XmlIdleScreen URL field.
3) Click the Confirm button to save the change.

Note:

1) XML-IdleScreen only used to idle interface.
2) For more information about the XML file and the URL you can consulting your system administrator



Using the Basic Call Functions

Making a call

Call Devices

You can make a phone call via the following devices:

1) Pick up the handset, icon will be shown in the idle screen.

2) Press the Speaker button, icon will be shown in the idle screen.

3) Press the Headset button if the headset is connected to the Headset port in advance.

   In the dial-up interface, the icon will be shown in the idle screen.

Then enter the number, press Send soft key to dial out.

You can also dial the number first, and then choose the method you will use to speak to the other party.

Call Methods

You can dial the number directly by filling the SIP Server in the registered interface. But the number which you dialed must be the same with SIP server.
If you have registered more than one account, you can choose a certain account to make your call:

1) Press the Left/Right navigation key to choose a default account when your phone is in idle status.
2) In the dial-up interface, press the Line soft key to choose an account. Then press the Select soft key to confirm.
3) Press the three line keys on the keypad to active the chosen account.

Then

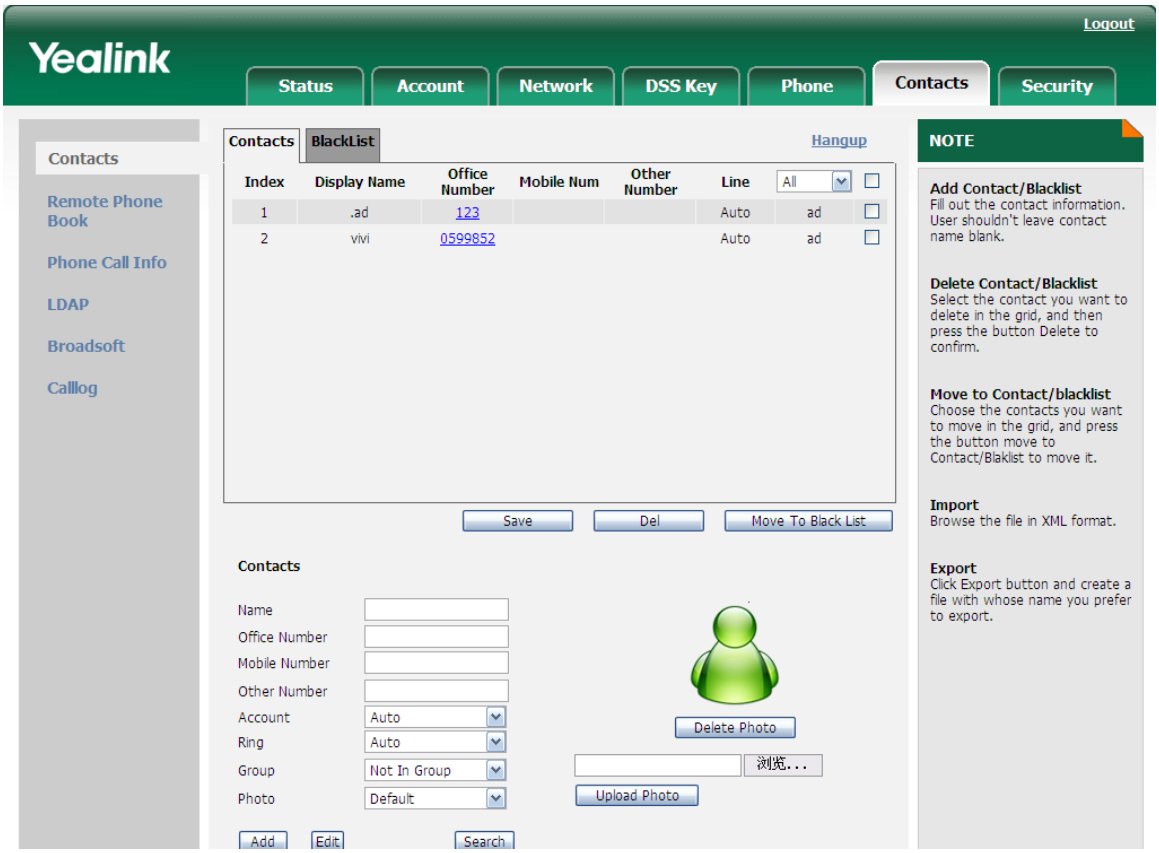
1) Dial the number you want to call.
2) In dial-up interface, press Pool soft key, use the navigation button to highlight your choice, enter the corresponding option.
3) Press the RD button in the idle status to enter the Dialed Calls interface, then use the Up/Down navigation key to choose a record.

4) Press the line keys which have been set as speed dial button.

Then press Send soft key to make the call out if necessary.

And you can also dial-up via web interface:

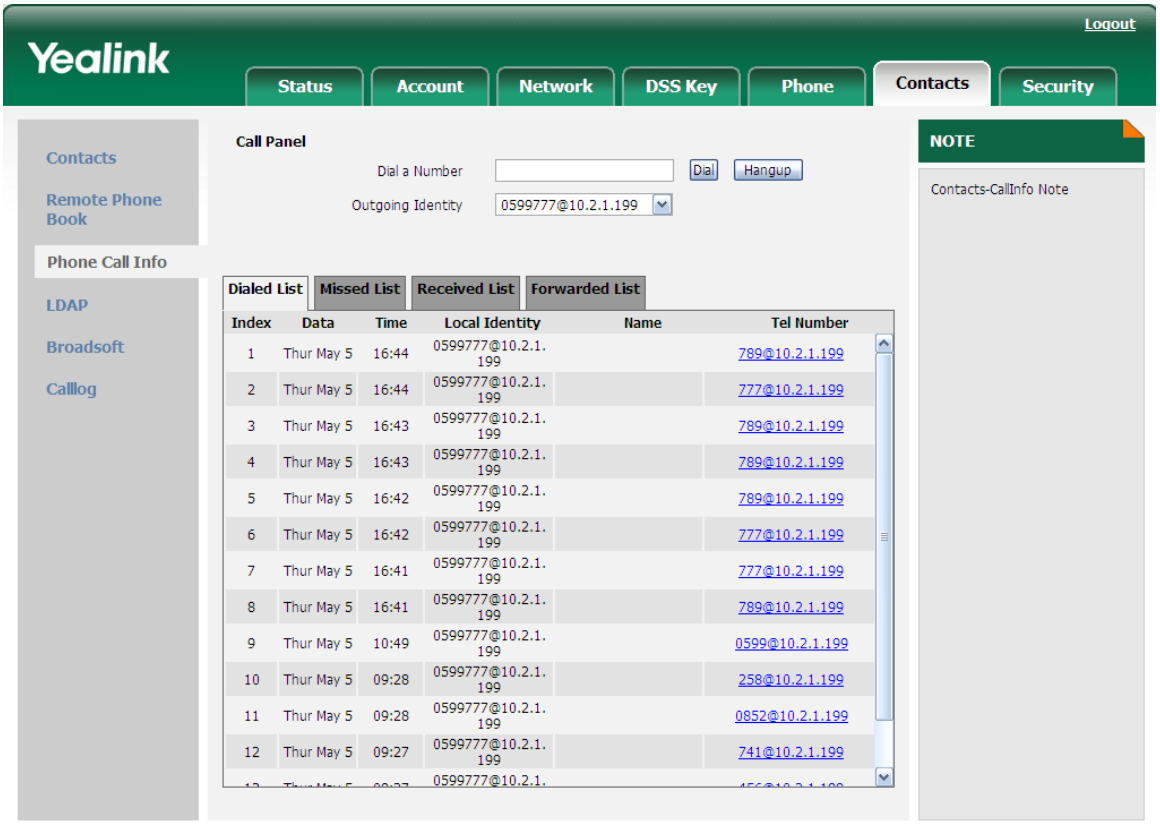
1) Choose Contacts-> Contacts -> Contacts/BlackList, click the number which you want to dial out, the phone will dial out.



2) Or choose Contacts->Phone Call Info, enter the number in the Dial a Number field, select the line from the Outgoing Identity list. Then click the Dial button to call out.

3) Or choose Contacts->Phone Call Info, click the number which you want to dial from the call list, the phone will dial out.

4) You can click the Hangup button to end the call in the web page.



Answering a call

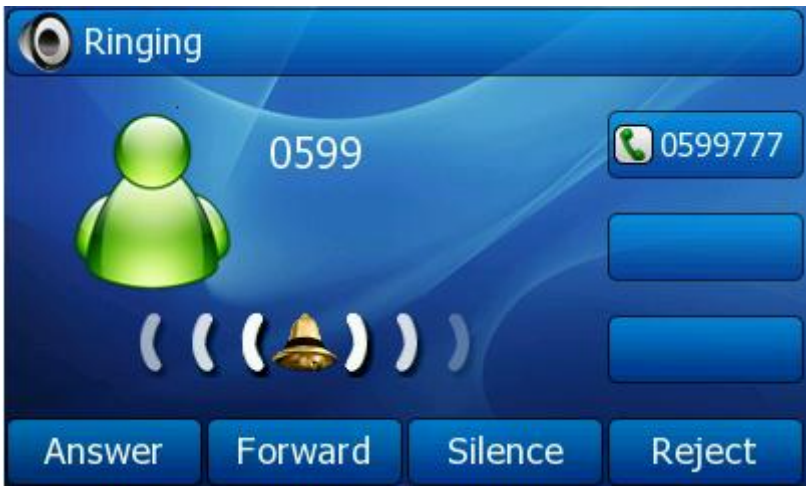
Answering an incoming call

1) If you are not on an active call, lift the handset to answer it using the handset, or press the Speaker button to answer it using the speakerphone, or press the headset button to answer it using the headset.
2) If you are on an active call, the LCD will prompt to display: *Incoming Call：xxx*. Press Answer soft key to answer the call, or Reject soft key to refuse it.

During the conversation, you can alternate between Headset, Handset and Speaker mode by pressing the corresponding buttons or picking up the handset.

Denying an incoming call

Press Reject soft key or X button to deny the incoming call directly.



DND

Press DND soft key to activate DND Mode. Further incoming calls will be rejected and the display shows: icon. Press DND soft key again to deactivate DND mode. You can find the incoming call record in the Call History.
User also can use DND code. For more information about DND, you can refer to "DND Code"

Call Forward

This feature allows you to forward an incoming call to another phone number e.g. a cell phone or voice mailbox. For more information, user can refer to "Call Forward".

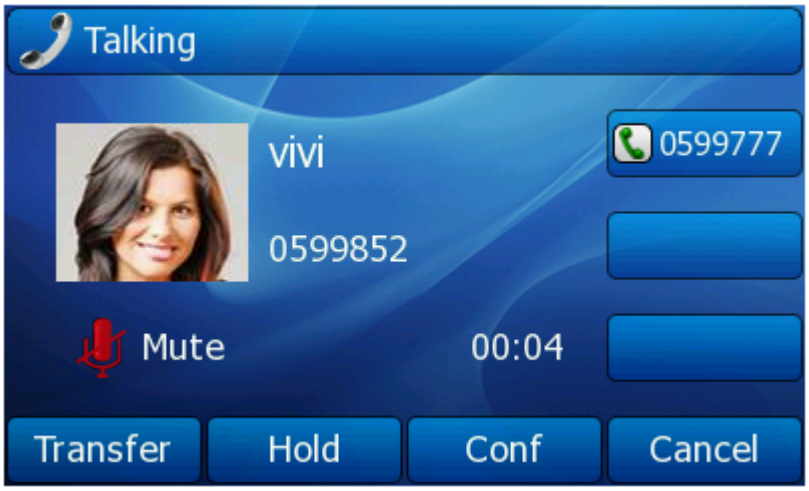
During an Active Call

Mute

This function allows you to mute the microphone of the active audio device during a call; you cannot be heard by the other party. You can still hear all other parties while mute is enabled. When you press the X button during the conversation will be muted.

To mute/resume a conversation:

Press X button during a conversation, the icon will be shown in the LCD. Press it again to get the microphone return to normal conversation.

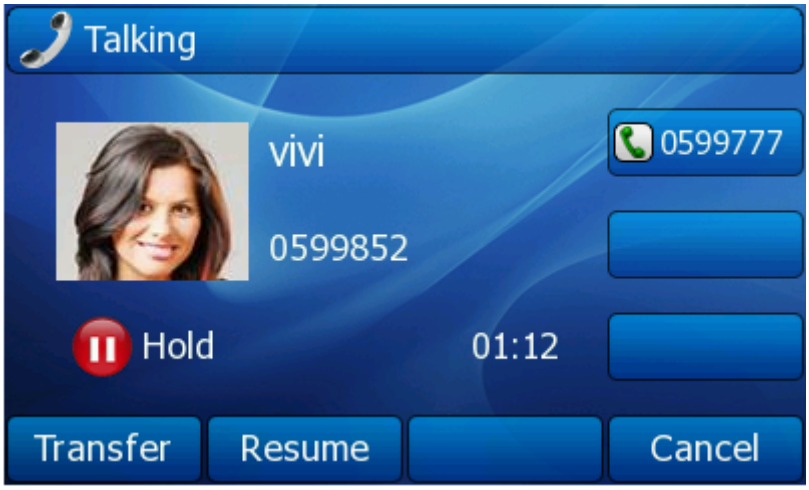


Call Hold

This call function allows you to place an active call on hold. In this case your IP PBX might play a melody or message to the other party while waiting. Other calls can be received and made while having a call on hold.

To hold/retrieve a call:

1) Press the Hold soft key to put your active call on hold.
2) During the call, there will be a "dodo...” sound for each 30 second, suggesting that there is a current call in Hold state.
3) If there is only one call on hold, press the Resume soft key or Hold soft key to retrieve the call.
4) If there are more than one call on hold, press the SWAP soft key to switch the conversation.
5) If you want to hold all the call, you can press the line key which you set as Hold. And then press the Up/Down navigation key to highlight the call, press the corresponding line key which set as Hold to retrieve the call. You can also press the line key to establish a new call and then all the call will be held.



Call Waiting

This call feature allows your phone to accept other incoming calls to the extension no matter under which circumstances. For more information, user can refer to "Call Waiting".

Call Transfer

You can customize your phone so that incoming calls are transferred directly to the third party such as another extension, mobile phone number, etc. There are three ways to transfer the call: Blind Transfer, Attended Transfer and Semi-Attended Transfer.

To Blind Transfer via phone interface:

1) A and B is on an conversation, A press TRAN Button or Transfer soft key to put B on hold, then A can dial the third telephone number C and press the Transfer soft key to call out. A will turn to hold status, and the LCD will display as Transferred.
2) After C answered it, or A press the Cancel soft key to complete the transfer.
3) A will be disconnected from the call. B can talk to C.

To Attended Transfer via phone interface:

1) A and B is on an conversation, A press TRAN Button or Transfer soft key to put B on hold, then A can dial the third telephone number C and press the OK or SEND button to call out.
2) After C answered it, A and C can have a private conversation without B hearing, then A press the TRAN button to complete the transfer.
3) A will be disconnected from the call. B can talk to C.

To Semi-Attended Transfer via phone interface:

1) A and B is on an conversation, A press the TRAN button or Transfer soft key to put B on hold, then A can dial a new number C and press the OK or SEND button to call

out.

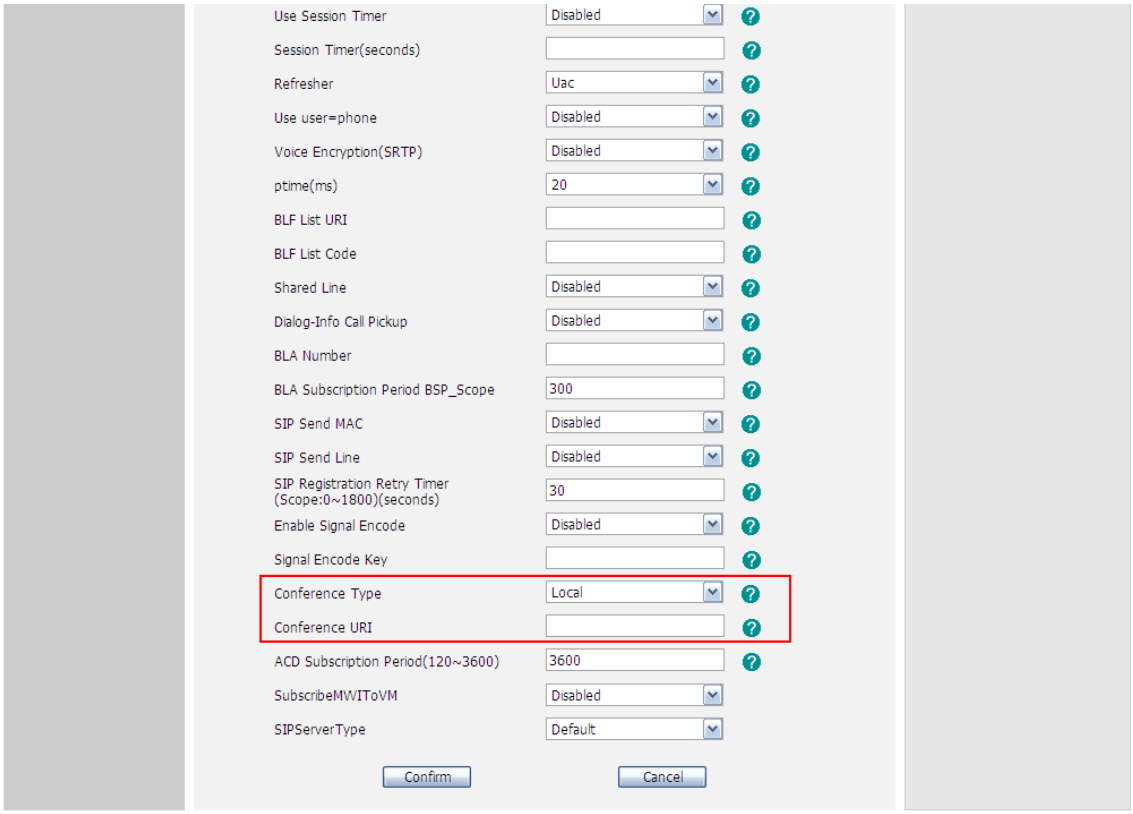
2) While C is ringing, A hangs up or press the Transfer soft key. Then A will turn to hold status, and the LCD will display as Transferred.
3) A will be disconnected from the call, when C pick up, B can talk to C.

Local Conference

You can establish a three-party conference, during the conversation three phone parties can communicate with each other. You must enable this option via web interface if you want to use this function

To enable local conference via web interface:

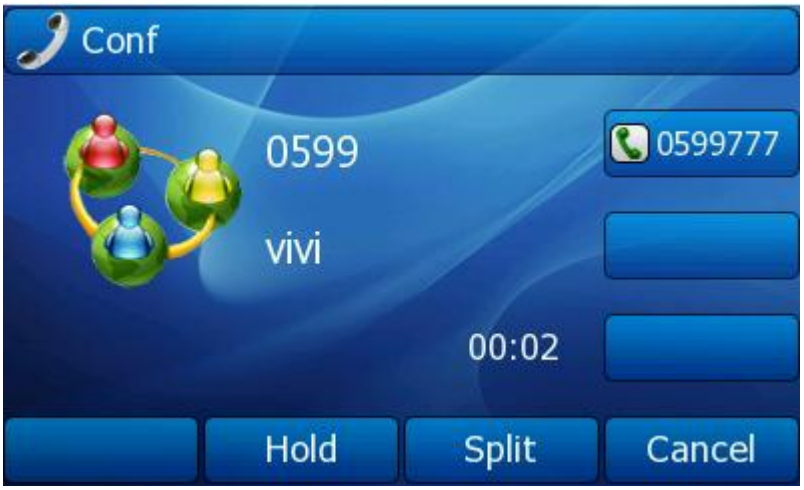
1) Choose Account->Account X->Advance->Conference Type, there is a pull-down menu, choose Local Conf from the list.
2) Press Confirm button to save the change.



To establish a local conference:

1) Press the Conf soft key during an active call.
2) The first call is placed on hold. You will hear a dial tone. Dial the number to conference in, then press the Send soft key.
3) When the call is answered, you can have a private conversation at first. And then press the Conf soft key, the conference call will include you and the other two parties.
4) During the conference, press the Split soft key to split the conference into two hold lines, and press the Resume soft key to resume the chosen call respectively.

5) When you press the hold key, the conference will be on hold.
6) Hang up to disconnect all parties.



Network Conference

If you want to make a conference with more than three people, you can open the function of network conference. This function needs the server's support.
If you enabled this function, you can put the meeting conference on the server.
To enable network conference via web interface:

1) Choose Account->Account X->Advance->Conference Type, there is a pull-down menu, choose Network Conf from the list.
2) Enter the Conference URI in the Conference URI field.
3) Press Confirm button to save the change.

To establish a network conference:

1) Press the Conf soft key during an active call.
2) Dial the number to conference in, then press the Send soft key
3) When the call is answered, press the Conf soft key.
4) After starting a three way conference, press Conf button to enter Conference dialing interface and invite another party to participate in teleconference.
5) After starting conference, press Hold key to hold local call without influencing others in conference.

Using the Advanced Phone Functions

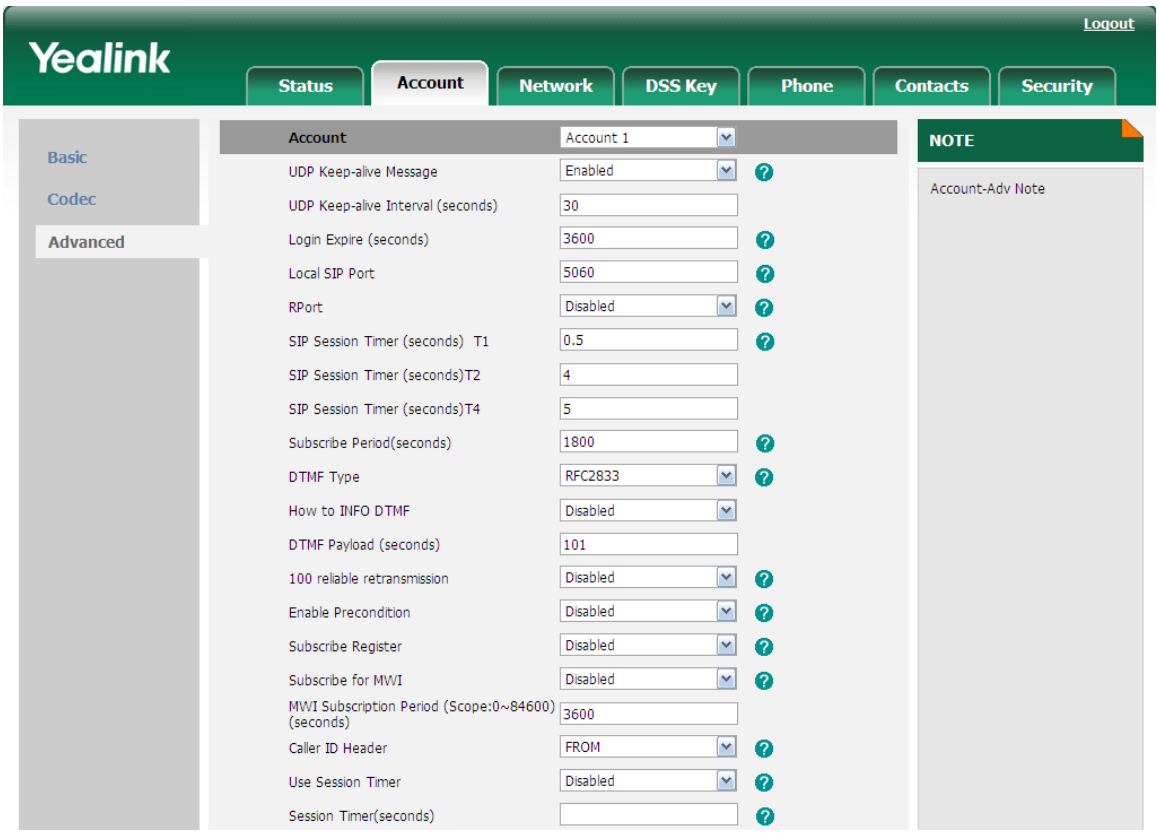
Account Settings

Please refer to the previous part "Configuration and Registration" for the basic Account setting information. The following table lists the instructions of the field about the advanced Account Setting.

Field Name	Description
UDP Keep-alive Message	Defines whether to activate the UDP Keep-alive mechanism. The default is Enabled.
UDP Keep-alive Interval(seconds)	This parameter specifies how often the phone sends a packet to the SIP server. The default is 30 seconds.
Login Expire(seconds)	This parameter specifies the frequency that phone refreshes its registration. The default interval is 3600 seconds.
Local SIP Port	Local SIP port. The default value is 5060.
RPort	The parameter allows you to configure the proxy to send responses back to a particular address and port. The default is disabled.
SIP Session Timer	This parameter defines an extension to the Session Initiation Protocol (SIP). This extension allows a periodic refresh of SIP sessions through a re-INVITE or UPDATE request. The refresh allows both user agents and proxies to determine if the SIP session is still active.
Subscribe Period(seconds)	This parameter defines period of the subscription. The default value is 1800.
DTMF Type	Select the DTMF type.

You can only configure these settings via Web interface.

1) Choose Account.
2) Select the desired account.
3) Choose Advanced to do the relating settings.



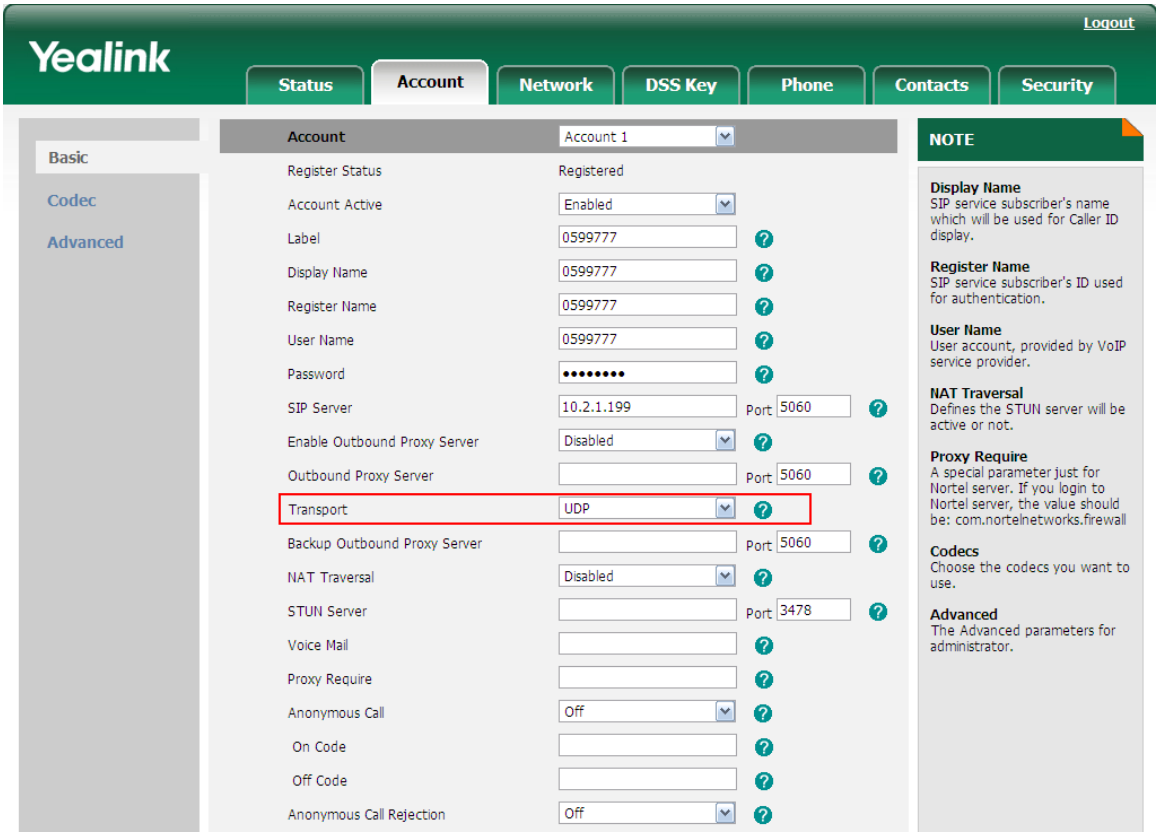
You can consult your system administrator for more information.

TLS

TLS(Transport Layer Security), an IETF standards track protocol (RFC 5246), is based on the earlier SSL specifications developed by Netscape Corporation.

Set Transport via Web interface:

1) Choose Account->Basic.
2) Choose Transport option, in the pull-down menu, you can choose the TLS option.
3) Click the Confirm button to save the change.



DNS-SRV

If the SIP server cannot be used, the phone will be connected the server which is available.

To set DNS-SRV via web interface:

1) Go to Account->Basic.
2) Choose Transport option, in the pull-down menu, you can choose the DNS-SRV option.
3) Click the Confirm button to save the change.

Network Setting

Please refer to the previous part "Network" for more information about the WAN Port, PC Port, and VLAN etc.

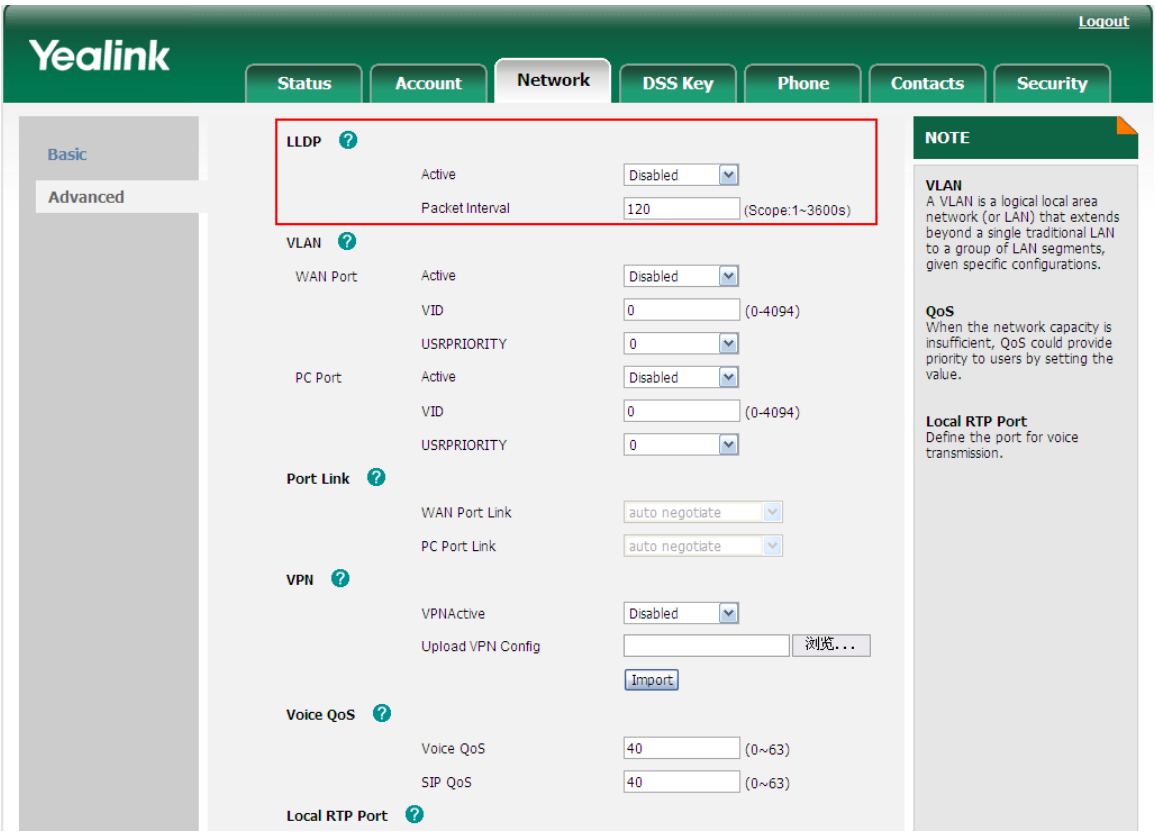
LLDP

The Link Layer Discovery Protocol (LLDP) is a vendor-neutral Layer 2 protocol that allows a network device to advertise its identity and capabilities on the local network.

Enable LLDP function; the phone will go to switch to get related VLAN parameters automatically. (Synchronous with VLAN in switch)

To configure LLDP settings via Web interface:

1) Choose Network->Advanced->LLDP->Active option, in the pull-down menu, choose enable or disable this function.
2) Then enter the corresponding Packet Interval in Packet Interval field.
3) Choose enable or disable to Overwrite Network option.
4) Click the Confirm button to save the change.



Maintenance Tasks

Administrator Mode

The phone allows two modes to configure the phone:

- User Mode
- Administrator Mode

Administrator mode grants unlimited access to the phone configuration on both Web and Phone interface. User Mode cannot set the following options: Advance settings of accounts, Advance settings of Network, Reset to Factory, and other advanced phone settings.

To logout via Web interface:

Click the Log Off button in the top right corner.

Administrator/User Password

Administrator mode grants unlimited access to the phone configuration on both web and phone user interface. The administrator/user password is used to access:

- Web interface.
- The advance settings of the phone such as Network, Account via the Web and Phone interface.

The default administrator password is **admin**. Meanwhile the user name for Web interface access is **admin**.

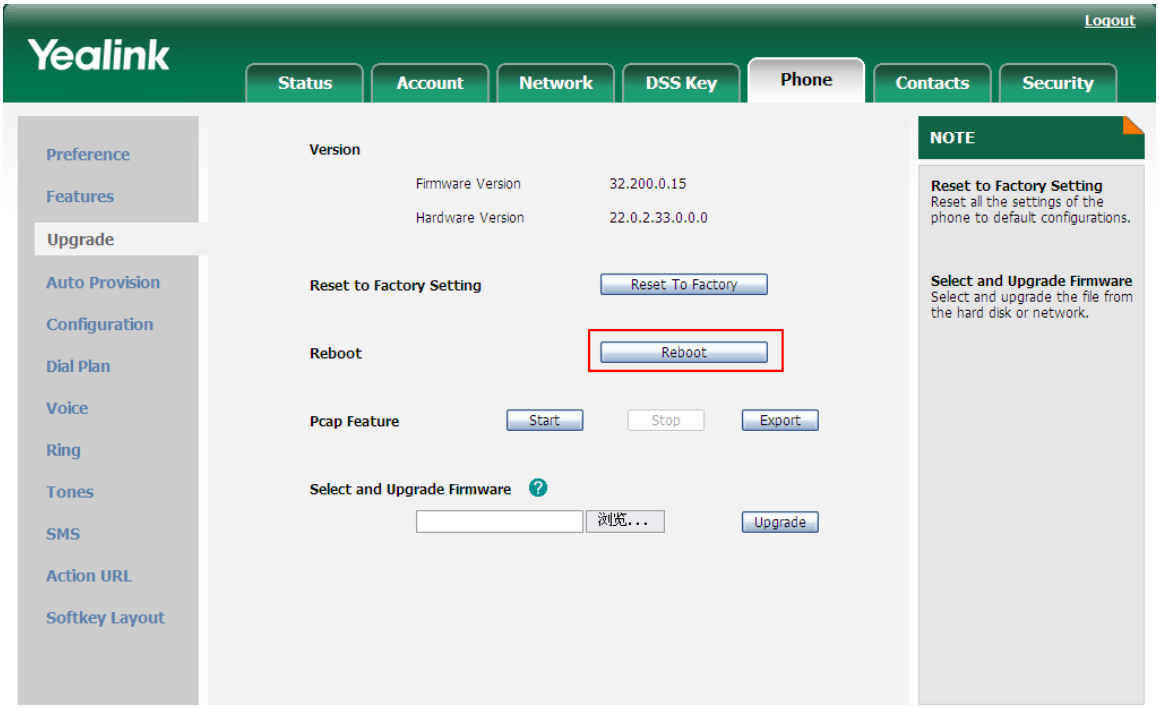
To change the administrator password user can refer to "Set Password".

Reboot

You should reboot the phone when you are challenged, e.g. after applying changes to the phone configuration.

To reboot via Web interface:

1) Choose Phone->Upgrade.
2) Click Reboot button.
3) You are prompted to confirm the change, press Yes to confirm the change, press No to cancel the operation.



Note:
Any power interruption during the following process will most likely lead to a flash memory error which will lead to failure in system booting up.

Reset to Factory

You should reset the phone only in this case: the phone configuration was changed and the phone is in malfunction. To maintain the configuration of the phone, you need your system administrator or service provider's advice.
To reset to factory user can refer to "Reset to factory".

Firmware Update

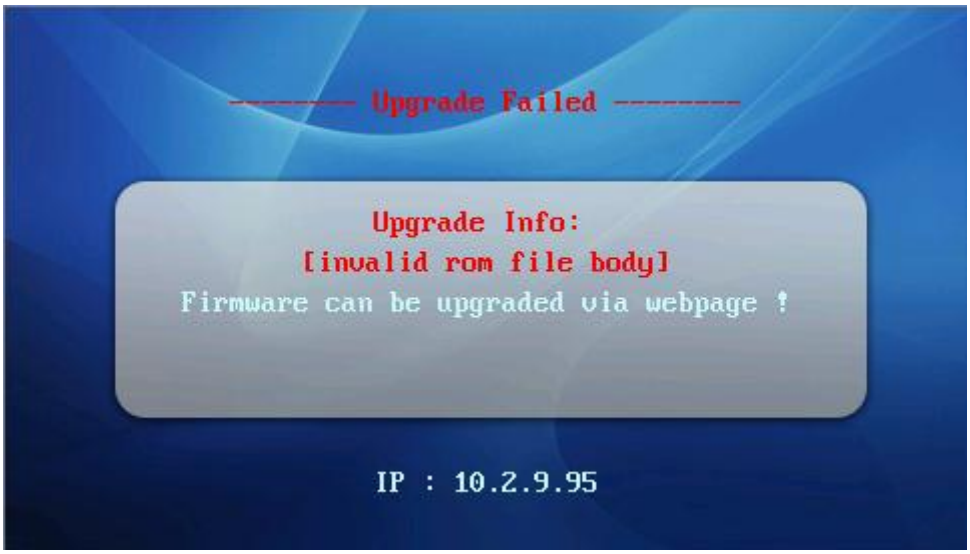
The phone is delivered with pre-installed firmware which is allowed to operate your phone flawlessly. If you require updating the phone's firmware please contact your system administrator. You can only update the firmware via Web interface.

To update the firmware manually via Web interface:

1) Choose Phone->Upgrade, click the Browse button to select the firmware file in your local computer.
2) Click Upgrade button to update the new firmware.

To update the firmware automatically refer to "Auto Provision".

If the phone upgrade fails, the phone interface will show as below, you can obtain the IP address and then you can upgrade again via web interface.



1) Enter the IP address in the Web browser.
2) Enter into the upgrade interface.
3) Choose the firmware to upgrade again, or input the URL of the firmware.
4) Click the Upgrade or Confirm button to upgrade.

Export / Import Config

To Export/Import the configuration file via Web interface:

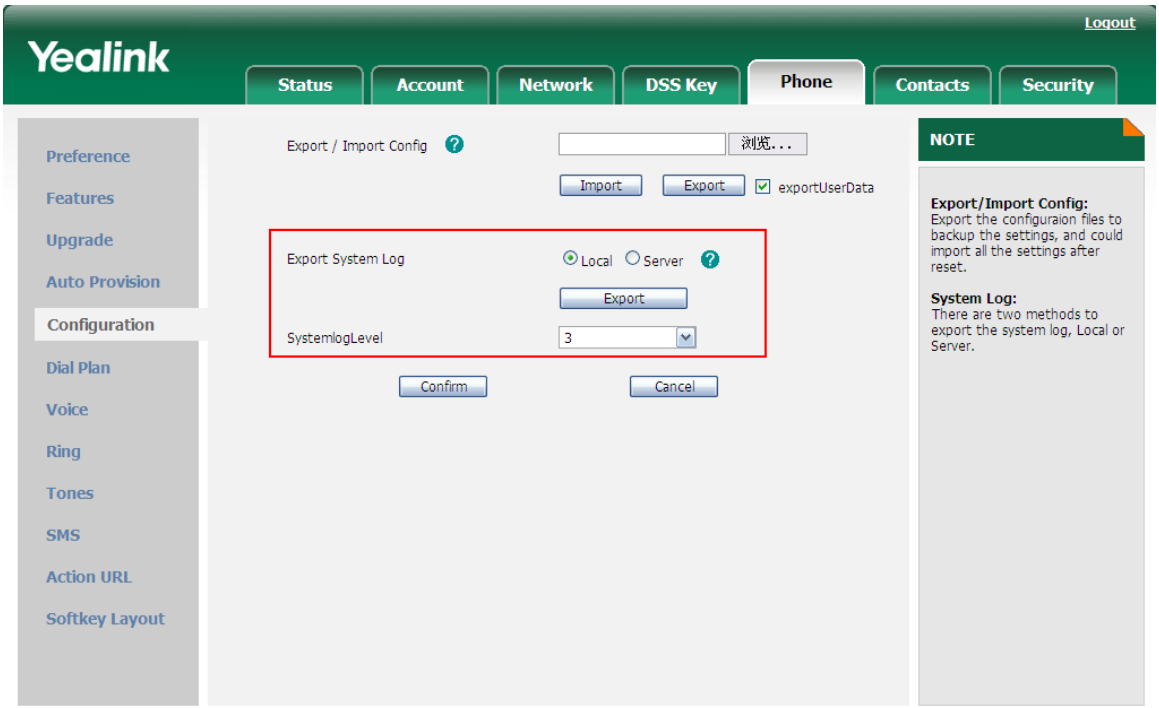
1) Choose Upgrade->Configuration, select Export/Import Config, click Export button to export the file to your local computer.
2) Choose Upgrade->Configuration, select Export /Import Config, click Browse button, select the specific configuration file in your local computer, click Import button.

System Log Export

If there are any errors happened in your phone, you can export the system log and send to your system administrator for diagnosis.

To export the System Log:

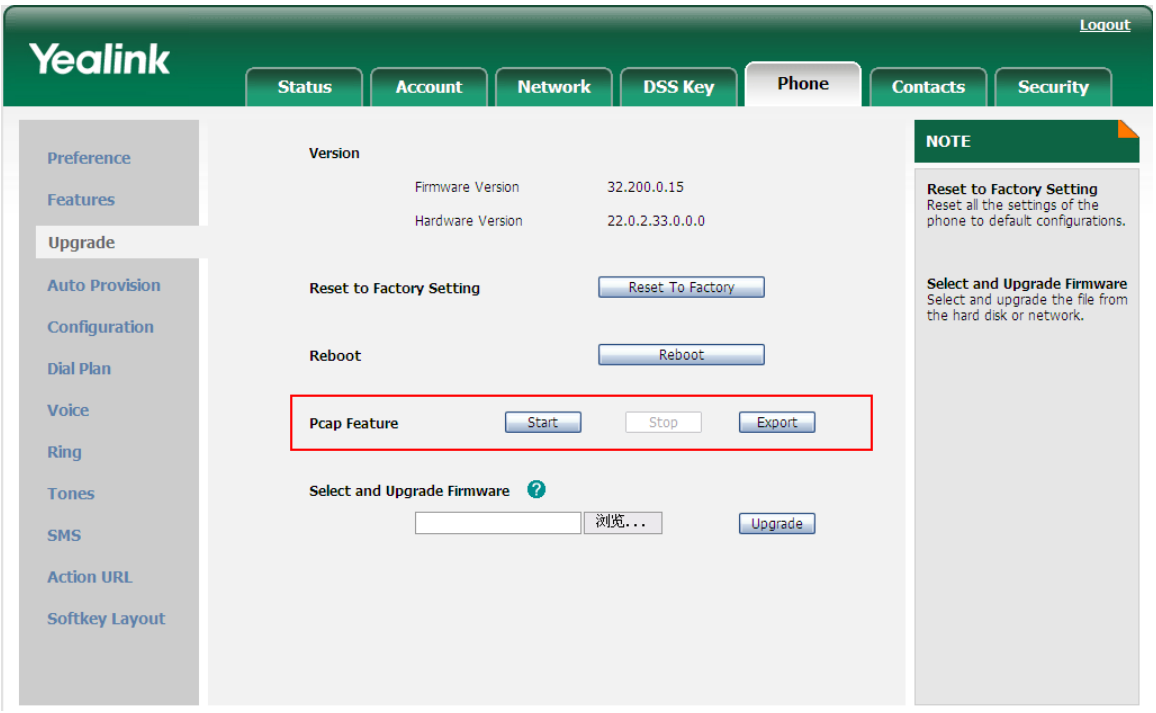
1) Choose Upgrade->Configuration, select Export System Log type, if the type is Local, it will export the syslog directly; if the type is server, it will export the syslog to the specified server.
2) Click Export button to export the file.



PCAP Trace Export

The PCAP Trace used to record the data transport of your IP phone. If there are any errors happened in your phone, you can export the PCAP trace and send to your system administrator for diagnosis.

To export the PCAP Trace:
Choose Phone->Upgrade to enter, select Pcap Feature option, click Start button began to capture the trace, and click Stop to stop capture the trace, and then click Export to export the file to your local computer.



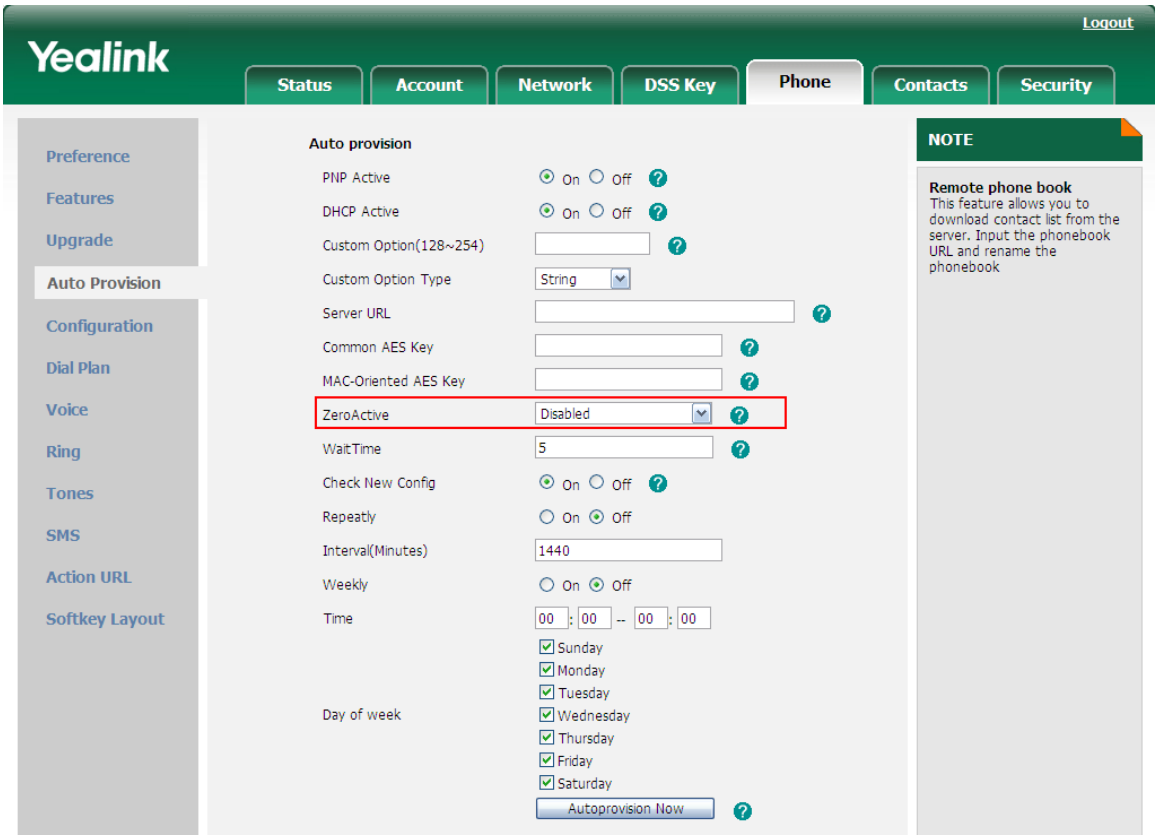
Zero-sp-touch

Zero-sp-touch this function can help users to configure AUTOP and network parameters quickly.

Enable this function, when the power is on or press the corresponding line key, the phone will turn to the zero-sp-touch interface.

Turn on Zero-sp-touch when the power is on via web interface:

1) Choose Upgrade->Auto Provision, select ZeroActive option, in the pull-down menu, choose enable to turn on this function.
2) Enter the time in the Wait Time field.
3) Click Confirm button to save the change.



Enter the zero-sp-touch interface, a countdown interface comes into view.

1) No operation or pressing cancel soft key will lead to idle interface.
2) Press status key to enter phone's network interface, user can search the internet.
3) Press OK key, enter the network setting interface, press ***next*** softkey to enter the Auto Provision setting interface, enter the corresponding contents; press ***OK*** softkey to save the settings. Press ***back*** softkey return to previous menu.

DSS key Configuration

The phone has 3 line keys which you can assign 30 functions to each key. The following list shows the functions you can assign to the line keys and provides the descriptions for each function. The default configuration for each key is line which means the key has been set as line.

- Line
- Speed Dial
- BLF
- BLF List
- Voice Mail
- Pick Up
- Group Pickup
- Call Park
- Intercom
- DTMF
- Prefix
- Local Group

- XML Group
- LDAP
- Broadsoft Group
- Conference
- Forward
- Transfer
- Hold
- DND
- Redial
- Call Return
- SMS
- Record
- URL Record
- Paging
- Group Listening
- Shared Line
- ACD
- Zero-sp-touch

Note:

1. You have to pre-configure your PBX In order to apply quick access features like Intercom and Voicemail on your phones. Please contact your system administrator for more information.

Line

You can set these keys as line keys to activate the three user accounts.

To assign the key as Line:
Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, choose Line from the list, press Confirm button to save the change.

Speed Dial

You can configure the key as speed dial key. This key function allows you to access the most frequently dialed numbers easily.

To assign the key as Speed Dial:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Speed Dial from the list.
2) Enter the number you want to perform Speed Dial in the "Value" field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

BLF

You can configure the key for Busy Lamp Field (BLF) which allows you to monitor the status (idle, ringing, or busy) of another SIP accounts. User can dial the monitored extension on a BLF configured key.

To assign the key as BLF:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose BLF from the list.
2) Enter the number you want to monitor in the "Value" field,
3) In the "Line" field, select a line for which to apply this feature.
4) And then enter the feature codes in the "Extension" field.
5) Press Confirm button to save the change.

Please refer to "LED Instruction" for more details about the LED status in different situation.

Note:
User can also set the pickup number to activate the pickup function. For example, if you set the BLF number as 212, and the pickup number is *83, then when there is an incoming call to 212, press the BLF key, it will call out the *83 automatically to pick up the incoming call on 212.

BLF List

BLF list is a function which can monitor the group status, it is not one to one monitoring, but the information feedback from the server to decide which BLF list will monitor which account.

To set BLF List via web interface:

1) Choose Account->Advanced-> BLF List URI, enter the BLF List URI.
2) Then enter the BLF List Code in the BLF List Code field.
3) Click the Confirm button to save.

To assign the key as BLF List:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose BLF List from the list.
2) In the "Line" field, select a line for which to apply this key.
3) Press Confirm button to save the change.

Voice Mail

When the key is configured as Voicemail key you are allowed to access voicemail quickly by pressing this key.

To assign the key as Voice Mail:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Voice Mail from the list.

2) Enter the number you want to set as the voice mail box in the “Value” field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

Pick Up

When you configure a Pick Up key, you specify the extension that you want to monitor. Then, when the monitored extension receives a call, you can press this key to pick up the incoming calls.

To assign the key as Pick Up:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the “Type” field, and choose Pick Up option from the list.
2) Enter the feature code (for example, input *78345, *78 is the feature code and the 345 is the extension number you want to pickup) in the “Value” field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

Group Pick up

When you configure a Group Pick Up key, you specify the extension group that you want to monitor. Then, when the monitored group receives a call, you can press this key to pick up the incoming call. If the group receives multiple calls simultaneously, you will pick up the specific one the server assigns to you.

To assign the key as Group Pick Up:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the “Type” field, and choose Group Pick Up option from the list.
2) Enter the feature code (for example,*78) in the “Value” field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

Call Park

Call Park is a feature that allows a person to put a call on hold at one telephone set and continue the conversation from any other telephone set.
The “call park” feature is activated by pressing a preprogrammed button or a special sequence of buttons. When the conversation which is monitored was transferred to an unused extension number, you can dial the feature code to retrieve the call.

To assign the key as Call Park:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the “Type” field, and choose Call Park from the list.
2) Enter the number you want to park in the “Value” field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

Intercom

You can configure the key as Intercom mode and it is useful in an office environment as a quick access to connect to the operator or the secretary.

To assign the key as Intercom:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Intercom from the list.
2) Enter the feature code and the intercom number you want to intercom in the "Value" field (for example: the feature code is *87, the intercom number is 0599123, and then user must enter the *870599123 in the "Value" field).
3) In the "Line" field, select a line to apply this key, the default one is Line 1.
4) Press Confirm button to save the change.

Note:
Your VoIP PBX must support this feature. And make sure the Intercom Allow is enabled.

DTMF

You are allowed to send out the desired DTMF number during the conversation. The number needs to be set in advance.

To assign the key as DTMF:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose DTMF from the list.
2) In the "Value" field, enter the specific number.
3) Press Confirm button to save the change.

Prefix

When you set up the function of prefix, press this key, the phone will be ready to make a new call, and show up the content which you're set previously on the dial interface. And you could enter other figure and call out

To assign the key as Prefix:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Prefix from the list, and enter the number you want to show up on the dial interface in the "Value" field.
2) Press Confirm button to save the change

Local Group

The keys can be configured as Local Group key. Then pressing this key under the idle status, you can enter the Local Group interface.

To assign the key as Local:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Local Group from the list.
2) In the "Line" field, choose a Contacts or group, if you want to select a group, you must add a group at first.
3) Press Confirm button to save the change.

XML Group

The keys can be configured as XML Group key. Then pressing this key under the idle status, you can enter the XML Group interface.

To assign the key as XML Group:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose XML Group from the list.
2) In the "Line" field, choose a remote phone book to specify the record, so you must configure the remote phone book at first.
3) Press Confirm button to save the change.

LDAP

If you want to use the LDAP function, you must configure the corresponding options in the LDAP interface at first.

To assign the key as LDAP:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose LDAP from the list.
2) Press Confirm button to save the change.
3) When you press this key under the idle, the phone will turn to the contact search interface.

Broadsoft Group

The keys can be configured as Broadsoft Group. Then pressing this key under the idle status, you can enter the Broadsoft Group interface.

To assign the key as Broadsoft Group:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Broadsoft Group from the list.
2) In the "Line" field, choose a Broadsoft Group to specify the record, so you must configure the Broadsoft Group at first.
3) Press Confirm button to save the change.

Conference

You are allowed to configure the DSS key to be used as a conference key while remaining in the current call. This key allows a user on a call to conference another party while remaining in the conference.

To assign the key as Conference:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Conference from the list.
2) Press Confirm button to save the change.

Forward

If the key is configured as Forward key, press this key under the idle status, the IP phone will turn to the forward page and you can set the Forward to number, then when there is any call to the extension number will be forwarded to the preset number automatically.

To assign the key as Forward:

1) Choose DSS Key->Line Key, choose one of the line keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Forward from the list.
2) Enter the extension number you want to forward to in the "Extension" field.
3) Press Confirm button to save the change.

Transfer

You are able to configure the key as a transfer key to perform the Blind/Attended/Semi-Attended Transfer.

To assign the key as Transfer:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Transfer from the list.
2) Enter the Number in the "Value" field, when you are on a conversation, press this key, the phone will blind transfer to the number. Or you can leave it black to set as the transfer button.
3) Press Confirm button to save the change.

Hold

The key can be configured as a hold key. You can use this key to hold and retrieve a call during the conversation.

To assign the key as Hold:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, choose Hold from the list.
2) Press Confirm button to save the change.

DND

If the key is configured as DND key, you are allowed to activate the DND function immediately when you press it. Press it again to deactivate DND mode.

To assign the key as DND:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, choose DND from the list.
2) Press Confirm button to save the change.

Redial

If the key is configured as Redial key, press this key under the idle status, it will enter the Dialed Calls interface, then you can choose a line to call out by pressing the line keys.

To assign the key as Redial:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Redial from the list.
2) Press Confirm button to save the change.

Call Return

When the key is configured as Call Return key you are allowed to dial the last phone call you received.

To assign the key as Call Return:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Call Return from the list.
2) Press Confirm button to save the change.

SMS

When the key is configured as SMS key you are allowed to access SMS quickly by pressing this key.

To assign the key as SMS:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose SMS from the list.
2) Press Confirm button to save the change.

Record

Call recording is a phone function to record the conversation in the process of dialogue. Using this feature, please pay attention to the maximum recording time and frequency in advance. Generally, it may be a few minutes.

To assign the key as Record:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Record option from the list.
2) Press Confirm button to save the change.

URL Record

During the conversation, pressing the type of DSS key, and then follow the voice prompts to achieve the call recording capability.

1) When you are on the conversation, pressing the DSS key to start the recording process in the current Call.
2) Enable the recording function, the recording icon will be flashing and the DSS Key light will blink green for the ongoing recording process.
3) Pressing the DSS key again to disable the recording function and the flashing recording icon will be disappeared simultaneously.
4) Follow the voice prompts to listen to the recording.

To assign a DSS key as URL Record:

3) Chooses Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, choose URL Recorder from the list.
4) Enter the condition code in the "Value" field.
5) Press Confirm button to save the change.

Note:
During a conversation, press this type of DSS key to start the recording process; if the other party hung up, your phone will turn to the idle status.

Paging

You can configure the key as Paging key. When you press this key, the phone will dial the number out directly.

To assign the key as Paging:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Paging option from the list.
2) Enter the number you want to dial directly in the "Value" field.
3) In the "Line" field, select a line for which to apply this key.
4) Press Confirm button to save the change.

Group Listening

When the key is configured as Group Listening key, you are allowed to enable the Speakerphone and Handset/Headset mode at the same time. It is suitable for the group conversation which has more than one person at one side. You are able to speak and listen using handset/headset; meanwhile the others nearby can listen using speakerphone. You can get back to the previous mode by pressing the key again. (If the current mode is handset or headset, users can press the speaker button to open or close the group listening function)

To assign the key as Group Listening:

1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Group Listening from the list.
2) Press Confirm button to save the change.

Shared Line

The Shared Line Appearances (SLA, which is also named as BLA) feature allows subscribers to share SIP lines and also provides status monitoring of the shared line. When a user places an outgoing call using such an appearance, all members belonging to that particular SLA group are notified of this usage and are blocked from using this line appearance until the line goes back to idle state or when the call is placed on hold. Similarly all members of the SLA group are notified of an incoming call and the call can be picked up on a line appearance associated with the SLA extension.

To assign the key as Shared Line:

1) Choose DSS Key->Memory Key or Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the Type field, and choose Shared Line from the list.
2) Enter the condition code in the Value field.

3) In the "Line" field, select a line for which to apply this key, the default one is Line 1.
4) Press Confirm button to save the change.

ACD

ACD (Automatic Call Distribution) is automatic call distribution equipment, is according specific Transfer Rules and distribution strategy to switch the access call to the right person.

Press DSSKey, it will pop up a login box, enter the User ID and Password, click the Log In soft key.
Presses DSSKEY again enter to the ACD Status page, choose Available/Unavail to change the status.
You can also press LogOut soft key to logout.
When your status is Available, the calls will be directed to your phone. Or the status is una vailable，the calls will not be directed to your phone。

To assign the key as ACD:
1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose ACD from the list.
2) In the "Line" field, select a line for which to apply this key.
3) Press Confirm button to save the change

Note:
ACD is not available on all call servers. For more information, contact your system administrator.

Zero-sp-touch

You can also press the DSSKey which set as the Zero-sp-touch. Then press the DSSKey, the phone will turn to the Zero-sp-touch interface.
To assign the key as Zero-sp-touch:
1) Choose DSS Key->Line Key, choose one of the keys you want to make the assignment, there is a pull-down menu in the "Type" field, and choose Zero-sp-touch from the list.
2) Press Confirm button to save the change

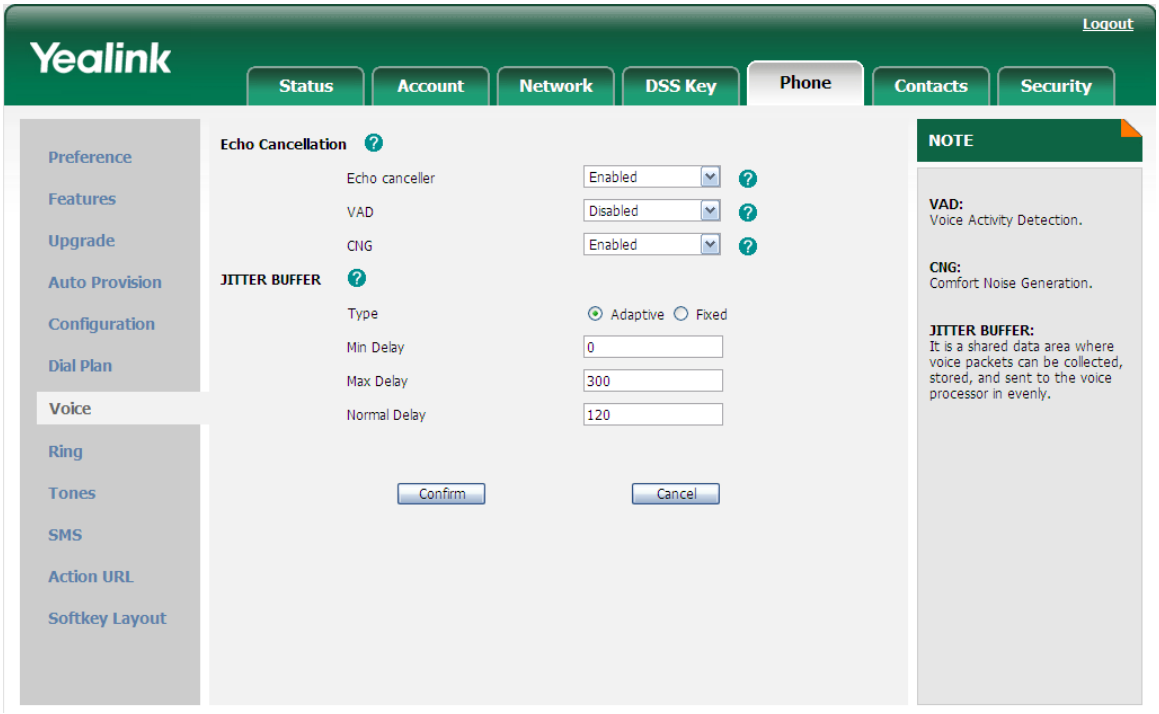
Voice

To edit the Voice filed via Web interface:
1）Choose Phone->Voice.

2) Set the following parameters shown in the table.

Parameter	Description
Echo canceller	Defines whether to enable the echo canceller.
VAD	Voice activity detection (VAD), also known as speech activity detection or speech detection, is a technique used in speech processing in which the presence or absence of human speech is detected.
CNG	A comfort noise generator (CNG) is a program used to generate background noise for voice communications during periods of silence that occur during the course of conversation.
JITTER BUFFER	It is a shared data area where voice packets can be collected, stored, and sent to the voice processor evenly.
Type	To choose the type of JITTER BUFFER, adaptive or Fixed.
Delay	To set the Min Delay, Max Delay and Normal Delay parameter.

3) Press Confirm button to save the change, or press Cancel button to cancel the change.

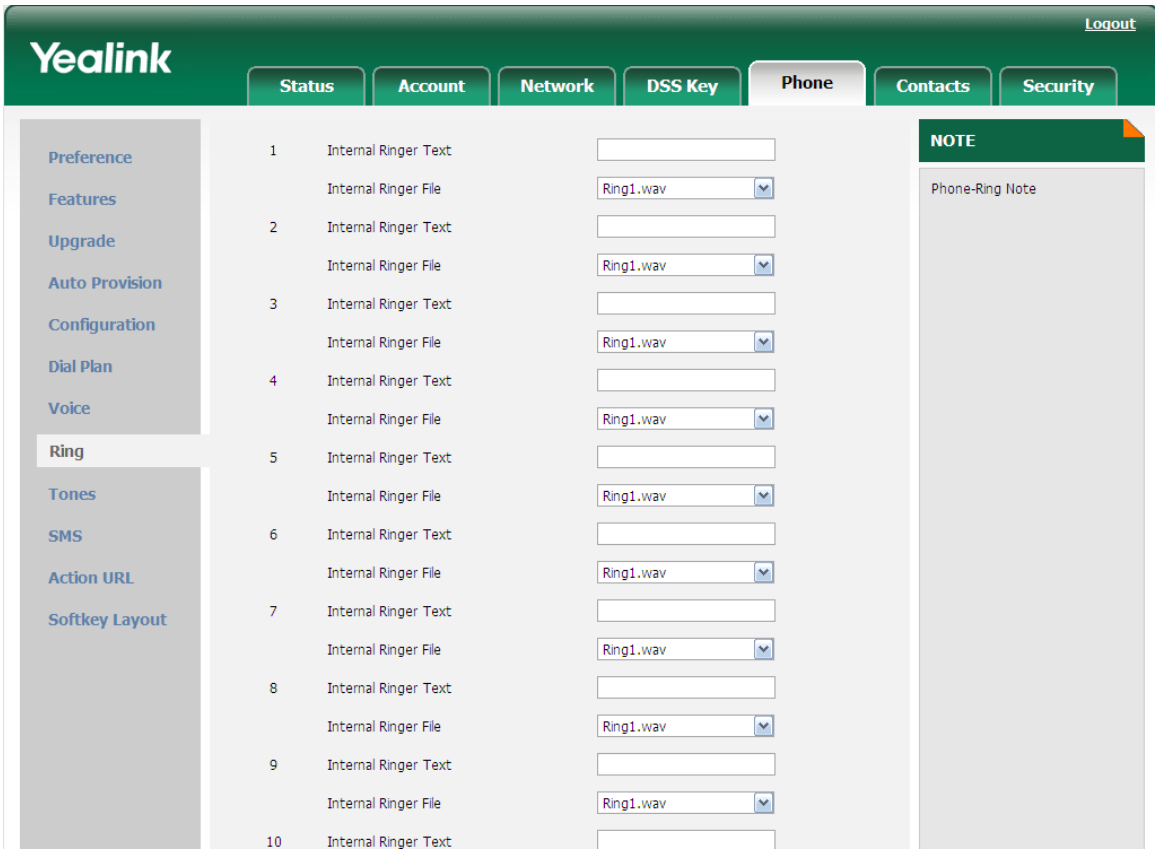


Ring

Users can group your contacts, and then set the ringing tone for each group.

To edit the Ring option via Web interface:

1) Choose Phone->Ring.
2) Internal Ringer Text: To set group name. For example: family.
3) Internal Ringer File: To choose a special ring tone for the group.
4) Click the Confirm button to save the change.



Tone Settings

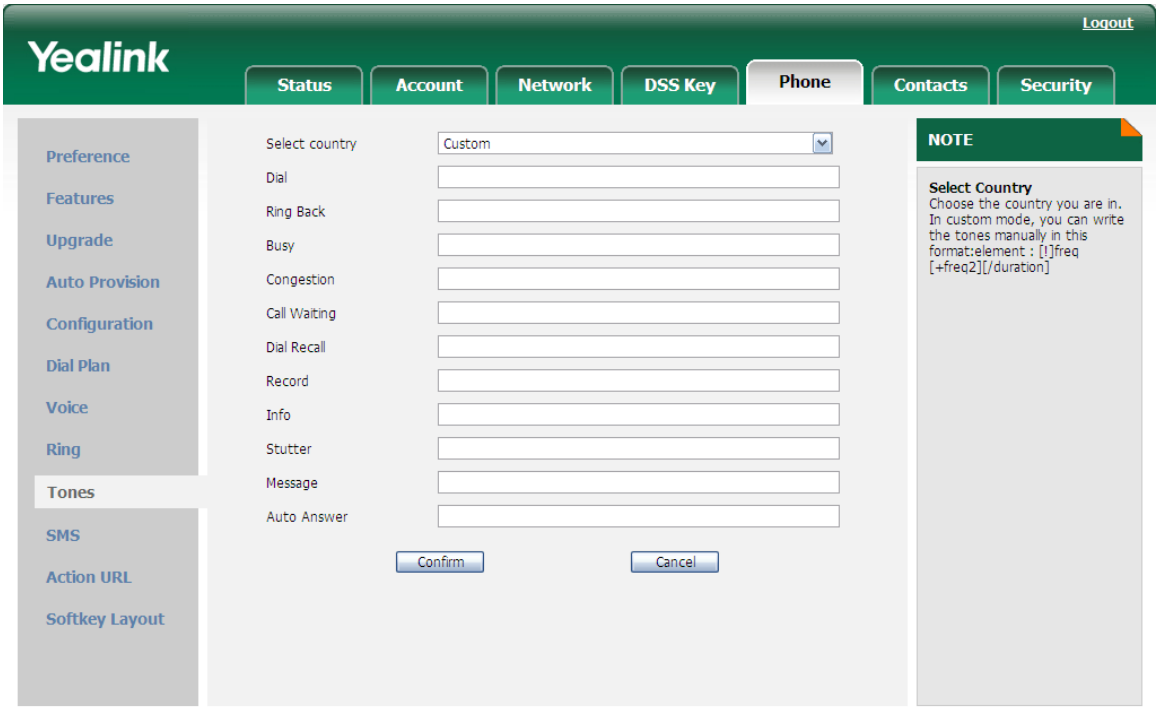
You can use the country tone, or if you don't want to use the default one, you can custom it by yourself.

You can define the frequency and time period of all the following tones:

- Dial
- Ring Back
- Busy
- Congestion
- Call Waiting
- Dial Recall
- Record
- Info
- Stutter
- Message
- Auto Answer

To edit the tone filed via Web interface:

1) Choose Phone->Tones.
2) Enter the frequency and time period(in ms) as the following format:
   Frequency /Time Period (for example 400/200).
3) Press Confirm button to save the change, or Cancel to cancel the change.



Note:

1. Please contact your system administrator for more information about the frequency and time period parameters. You can enter up to 8 groups for each tone.
2. If the frequency is set as 0, it means silence.

Trouble Shooting

I can not register to the server?

1) Check the IP address. If you set your WAN port in DHCP mode, please make sure that your DHCP server is on.
2) Check your gateway.
3) Check your DNS server.
4) Make sure your account information is the same as you have got from your ISP.
5) Check whether the SIP server is on.
6) Check the SIP register port, the default value is 5060.

I can't get the IP address?

- Make sure you have plugged the Ethernet cable into the WAN port.
- Make sure that the DHCP server is on, and there are available IP addresses in the server.
- Try to set your WAN port to static IP client mode.

During a call, I cannot hear any voice?

Make sure your handset is tightly connected with the phone.
Check whether you have muted the conversation or not.
Consult the outbound server details with your ISP.

Have DTMF problem?

Check which kind of DTMF you are using, and whether it is compatible with the server.

- Consult the payload value with your ISP.

How to change the time?

Select the time zone or enter the time information manually on the webpage or the phone.

How to answer the incoming calls during a call?

If a call comes in when you are in a conversation, press the navigation key to switch to the incoming call interface, then press the Answer key or Speaker button to answer it.

How to refuse incoming calls during a call?

You can turn off the function of call waiting, and then our phone will refuse all the incoming calls when you are in a conversation.

How to send SMS?

You could edit the SMS in the Menu-> Messages->Text Messages.

Note:
Make sure that the SIP server you have registered supports SMS function.

How to update the firmware?

1) Enter the webpage of your phone, go to Upgrade, then you can find the option "Select and Upgrade Firmware" at the bottom of the page.
2) Select the file to update, and then click the Upgrade button.

Note:
Make sure the firmware you choose is provided by your service provider, or the device will probably crash after the update.

The manual is only for reference; please take the object as the standard.
We reserve the right to improve or change the product and the user guide without notice.
You can download the latest user manuals from our website:
http://www.yealink.com/index.php/Support

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